2017-18 CATALOG



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MT.S

ACCREDITATION

Mt. San Antonio College is reviewed and accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges. This accreditation authorizes the College to offer courses that parallel the first two years of the curricula for state universities. The ACCJC can be contacted by phone at **(405) 506-0234** or in writing at:

10 Commercial Boulevard, Suite 204 Novato, California 94949

Catalog Content Changes

Mt. San Antonio College has made every effort to ensure the accuracy of the information in this Catalog. Students and others should note that policies, rules, procedures, and regulations change and that these changes may alter the information in this publication. This Catalog is not intended to be a complete statement of policies, rules, procedures, and regulations. More current or complete information may be obtained from the appropriate administrative office.

The College reserves the right to change, without notice, any academic or other requirement, course offering, or course content contained in this Catalog.

The Catalog does not constitute a contract or terms of a contract between the student and the College.

Mt. San Antonio College 1100 North Grand Avenue Walnut, California 91789

(909) 274-7500

Mt. San Antonio College (http://www.mtsac.edu)

PRESIDENT'S MESSAGE

Welcome to Mt. San Antonio College!

Your educational journey is one of the most important you will take in your lifetime. As you can see in the *2017-2018 College Catalog*, we are your unwavering partner in success. This catalog is a compilation of courses, programs, support services, degree offerings, and transfer information that you will need to chart your course to academic success. All of this represents our commitment to provide you the finest education and support services.

In this catalog, you will find more than 200 degree and certificate programs, as well as a full range of basic skills and personal development courses. I encourage you to use the catalog as your planning resource guide to explore the vast scope of opportunities, services, and programs that Mt. SAC offers.

You will find a rich array of university transfer, career, and degree programs that can empower you with the knowledge and skills needed to succeed in a diverse and interconnected world. Be assured that our curriculum is in step with the fast-changing needs of today's dynamic employment sectors.

To the many freshmen who will enter Mt. SAC this fall, and to all returning students, we welcome you with open arms and wish you much success as you now become a part of our legacy of excellence.

Dr. William T. Scroggins President & CEO

Board of Trustees

Dr. Manuel Baca Rosanne M. Bader Judy Chen Haggerty, *Esq.* Jay F. Chen Dr. David K. Hall Robert F. Hidalgo Laura Santos Elizabeth Santos, *Student Trustee*

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THE COLLEGE

Mt. San Antonio College (Mt. SAC) is a public community college that offers a diversified educational program designed to prepare students for success in today's diverse economic, professional, technical and cultural sectors. The objectives of the education program are to:

- prepare students for transfer to baccalaureate-level colleges and universities;
- increase vocational competence resulting in usable and marketable occupational skills;
- provide a general education emphasizing basic skills and appreciation of our shared scientific, technological, historical and artistic heritage;
- · promote continuing education and lifelong learning;
- assist the student through guidance to know and develop his/her abilities in relation to his/her potential; and
- provide community service and adult education.

The College offers courses of study through a semester system. Each semester, fall and spring, is 16 weeks in length, while summer and winter sessions are six weeks long. Many courses are offered in an accelerated mode.

History

The Mt. San Antonio Community College District was created in December, 1945, when voters of four local high school districts approved the formation of a community college district. Initially known as Eastern Los Angeles County Community College, the institution was later renamed Mt. San Antonio College after the most visible snow-capped mountain (popularly known as Mt. Baldy) in the distance behind the campus.

The 421-acre campus was originally part of the 48,000-acre La Puente Rancho. During World War II, the facility was converted into an Army hospital and later a Navy hospital.

Mt. SAC opened in the fall of 1946 with 635 students occupying a few Spanish-tiled buildings and temporary Navy barracks clustered below the San Jose Hills. Walnut, not yet an incorporated city, consisted of very little except dirt roads, cacti, and grasslands covered in the spring with wild mustard grass.

Not surprisingly, the growth of Mt. SAC has mirrored that of the local area. The College now serves the communities of Baldwin Park, Bassett, Charter Oak, Covina, Diamond Bar, the southern portion of Glendora, Hacienda Heights, City of Industry, Irwindale, La Puente, La Verne, Pomona, Rowland Heights, San Dimas, Valinda, Walnut, and West Covina.

Mt. SAC has emerged as a leader in education not only in the San Gabriel Valley, but in the state. It is California's largest, single-campus community college with a combined Credit, Continuing Education, and Community Service student enrollment of over 65,000. In 2015 Mt. SAC proudly celebrated 69 years of educational excellence. The College will continue to offer access to quality programs and services as well as provide an environment for educational excellence throughout the 21st Century.

Mission, Vision and Values

Mission

The mission of Mt. San Antonio College is to support all students in achieving their full educational potential in an environment of academic excellence. Specifically, the College is committed to providing quality education, services, and workforce training so that students become productive members of a diverse, sustainable, global society. The College pledges to prepare students for lifelong learning through the mastery of basic skills, the achievement of associate degrees and certificates, and the completion of career and transfer pathways. The College will carry out this commitment by providing an engaging and supportive teaching and learning environment for students of diverse origins, experiences, needs, abilities, and goals. The College is dedicated to serving our community through improving economic achievement, advancing civic engagement, enhancing personal well-being, promoting critical thinking, and enriching aesthetic and cultural experiences.

Vision

Mt. SAC strives to be regarded as one of the premier community colleges in the nation. We will be viewed as a leader in community college teaching, programs, and services.

As a premier community college, we will provide access to quality, focusing on student success within a climate of integrity and respect. We will earn this reputation by consistently exceeding the expectations of our students, our staff, and our community.

Core Values

- Integrity: We treat each other honestly, ethically, and responsibly in an atmosphere of trust.
- **Diversity and Equity:** We respect and welcome all differences, and we foster equal participation throughout the campus community.
- **Community Building:** We work in responsible partnerships through open communication, caring, and a cooperative spirit.
- **Student Focus:** We address the needs of students and the community in our planning and actions.
- Lifelong Learning: We promote the continuing pursuit of high educational goals through equal access to excellence in both teaching and support services.
- **Positive Spirit:** We work harmoniously, show compassion, and take pride in our work.

COLLEGE ORGANIZATION

Board of Trustees

| College Organization | Name |
|-------------------------|--------------------------|
| President | Judy Chen Haggerty, Esq. |
| Vice President | Rosanne Bader |
| Clerk | Dr. Manuel Baca |
| Member | Jay Chen |
| Member | Dr. David K. Hall |
| Member | Robert F. Hidalgo |
| Member | Laura Santos |
| Student Trustee | Elizabeth Santos |
| College President & CEO | Dr. William Scroggins |

Administration

Administrative Services (909) 274-4230

| College Organization | Name |
|---|---------------------|
| Vice President, Administrative Services | Michael Gregoryk |
| Associate Vice President, Fiscal Services | Vacant |
| Director, Accounting | Shelly Zahrt-Egbert |
| Director, Bookstore and Operations | Suzanne Luetjen |
| Manager, Bursar's Office | Sheree Culross |
| Manager, Custodial Services | Ken McAlpin |
| Director, Facilities Planning and Management | Gary Nellesen |
| Assistant Director, Facilities Planning and Management | Bill Asher |
| Manager, Facilities Support Services | Becky Mitchell |
| Construction Project Manager | Roger Sneed |
| Director, Fiscal Resources | Vacant |
| Director, Grounds and Transportation | Ruben Avila Jr. |
| Director, Payroll | Richard Lee |
| Chief, Public Safety | David Wilson |
| Deputy Chief, Public Safety | Robert Wren |
| Director, Purchasing | Teresa Patterson |
| Director, Safety and Risk Management | Duetta Langevin |
| Director, Technical Services | William Eastham |
| Assistant Director, Technical Services | Kevin Owen |
| Manager, Technical Services | Chris Rodriguez |
| Chief Technology Officer | Victor Belinski |
| Director, Enterprise Applications Systems | Robert Hughes |
| Deputy Chief Technology Officer | Dale Vickers |
| Assistant Director, Academic Technology and Infrastructure | Ron Bean |
| | |

Assistant Director, Infrastructure Chris Schroeder and Data Security Director, IT Project Implementation Monica Cantu

Executive Director, Mt. SAC

Foundation

Human Resources (909) 274-4225 **College Organization** Name Ibrahim "Abe" Ali Vice President, Human Resources Director, Human Resources Cynthia Hoover Director, Equal Employment Sokha Song Opportunity President's Office (909) 274-4121, (909) 274-4215 **College Organization** Name Director, Marketing & Uyen Mai Communication **Director, Public Affairs** Jill Dolan

Bill Lambert

| College Organization | Name |
|--|-----------------------------|
| Vice President, Instruction | Dr. Irene Malmgren |
| Associate Vice President, Instruction | Dr. Joumana McGowan |
| Associate Dean, Instructional Services | Michelle Sampat |
| Dean, Arts Division | Dr. Sue Long |
| Associate Dean, Arts Division | Mark Lowentrout |
| Dean, Business Division | Jennifer Galbraith |
| Associate Dean, Business Division | Dr. Fawaz Al-Malood |
| Director, Child Development Center | Tamika Addison |
| Assistant Director, Child Development Center | Guadalupe Hernandez |
| Dean, Humanities and Social Sciences Division | Karelyn Hoover |
| Associate Dean, Humanities and Social Sciences Division | Dr. Jeanne Marie Velickovic |
| Director, Writing Center | Dr. David Charbonneau |
| Dean, Kinesiology, Athletics and Dance Division | Joseph Jennum |
| Associate Dean, Kinesiology, Athletics and Dance Division | Debbie Cavion |
| Dean, Library and Learning Resources Division | Meghan M. Chen |
| Director, Learning Assistance Center | Bailey Smith |
| Dean, Natural Sciences Division | Matthew Judd |
| Associate Dean, Natural Sciences Division | Vacant |
| Dean, Technology and Health Division | Jemma Blake-Judd |
| Associate Dean, Technology and Health Division | Sarah Plesetz |
| Dean, School of Continuing Education | Dr. Madelyn Arballo |

8 College Organization

| Associate Dean, Career Education and Workforce Development | Dr. Tami Pearson |
|---|--------------------------|
| Director, Adult Education | Lesley Johnson |
| Assistant Director, Adult Basic Education | Omideh Sloan |
| Director, Community and Contract Education | Paulo Madrigal |
| Associate Dean, Continuing Education Programs and Services | Dr. Liza Becker |
| Director, English Language Learners | Jody Fernando |
| ESL Instructional Support Manager | Margaret Teske |
| Director, Grants | Adrienne Price |
| Director, Research and Institutional Effectiveness | Barbara McNeice-Stallard |
| Director, Honors | Heidi Lockhart |

Student Services (909) 274-4505 College Organization

| Student Services (909) 214-4505 | |
|--|--------------------------|
| College Organization | Name |
| Vice President, Student Services | Dr. Audrey Yamagata-Noji |
| Dean, Counseling | Thomas Mauch |
| Associate Dean, Counseling | Dr. Francisco Dorame |
| Dean, Student Services | Koji Uesugi |
| Dean, Enrollment Management | Dr. George Bradshaw |
| Dean, Center of Excellence | Lori Sanchez |
| Assistant Director, Admissions and Records | Patricia Montoya |
| Director, Assessment and Matriculation | James Ocampo |
| Director, CalWORKS | Vacant |
| Director, Career and Transfer Services | Ivan Pena |
| Dean, Disabled Student Programs and Services (DSP&S) | Grace Hanson |
| Director, Deaf and Hard of Hearing Services | Don Potter |
| Director, Extended Opportunity Programs and Services (EOPS) | Irene Herrera |
| Director, Financial Aid | Dr. Chau Dao |
| Director, Health Services | Marguerite Whitford |
| Director, Student Life | Andrea Sims |
| Director, TRiO Program | Jose Martinez - Saldana |
| Director, Aspire Program | Clarence Banks |
| Director, High School Outreach | Tannia Robles |
| Associate Dean of Student Success and Equity | Dr. Eric Lara |
| Director, Arise Program | Aida Cuenza-Uvas |
| | |

STUDENT SUCCESS AND SUPPORT PROGRAM

Recognizing that student success is the responsibility of both the college and the student, the Student Success and Support Program was established to assure that students who attend a California Community College are given the best possible opportunity to succeed in accomplishing their academic goals. To accomplish this, the college will assure that appropriate services are provided to students to enhance their success. As a student, you must identify your academic goal and course of study as well as complete required core services including Assessment, Orientation and Educational Planning. Follow the Steps to Apply & Register tab to begin your academic career including information on the services you are required to participate in.

Step 1 - Apply to Mt. SAC

Complete and submit a Mt. SAC Admission Application (http:// www.mtsac.edu/apply). Computers are available in the Student Services Center for your convenience. For further information, contact Admissions Office at (909) 274-4415 or visit Admissions (http://www.mtsac.edu/ admissions) online.

Step 2 – Apply for Financial Aid

Mt. SAC offers a variety of financial aid programs funded by federal and state agencies and private sources, including grants, fee waivers, workstudy opportunities, scholarships, and loans. For further information, contact the Financial Aid Office at (909) 274-4450 or visit Financial Aid (http://www.mtsac.edu/financialaid) online.

Step 3 – Attend Placement Test Information Sessions

The sessions will prepare students to take the required placement tests and provide an opportunity for students to ask questions regarding the tests. For further information, contact the Assessment Center at (909) 274-4265 or visit Assessment (http://www.mtsac.edu/ assessment) online.

Step 4 – Get Assessed

Students attending Mt. San Antonio College are required to participate in assessment. The assessment and placement process has been established to enable all students an opportunity to be successful in their course work. For further information, contact the Assessment Center at (909) 274-4265 or visit Assessment (http://www.mtsac.edu/ assessment) online.

Step 5 – Attend New Student Orientation

At orientation, a counselor will review placement test scores and help you select your courses based on your test scores. Counselors will also review graduation and university transfer requirements. You will also create your Mountie Academic Plan (MAP). For further information, contact the Counseling Center at (909) 274-4380 or visit Counseling (http://www.mtsac.edu/counseling/orientation.html) online.

Step 6 – Get Counseling

Counselors are available to help if you:

- 1. are undecided about your major or career goal,
- 2. need assistance in planning your educational and/or career goal,
- 3. need assistance in choosing a university or college for transfer, or
- 4. have personal problems that impact your college success.

For further information, contact the Counseling Center at (909) 274-4380 or visit Counseling (http://www.mtsac.edu/counseling) online.

Step 7 – Register Online

Register online, based on your assigned registration date/time. Check your registration date on your portal account (MyPortal (https://my.mtsac.edu)).

Step 8 – Pay Fees

You can pay your fees online with a credit card (MasterCard, Visa, Discover, American Express) or in person at the Bursar's Office (Lower Level – Bldg 4). For further information, contact the Bursar's Office at (909) 274-4960 or visit Bursar's Office (http://www.mtsac.edu/ bursars) online.

Admission and Registration Admissions

Any person possessing a high school diploma or its equivalent is eligible for admission to Mt. San Antonio College. Admission to Mt. San Antonio College includes the filing of an application for admission by the student and the filing of transcripts from high school or college(s). It is the student's responsibility to request official transcripts from the last high school attended and any college(s) attended. Transcripts will be reviewed to determine eligibility for courses at Mt. SAC.

Application to the College

All inquiries regarding admission to the college should be directed to the Admissions and Records Office. Admission is granted only by filing an application for admission using one of the following methods:

- The application for admission of credit classes can be submitted online. To access the online application, visit the Mt. SAC Admissions (http://www.mtsac.edu/admissions) Website and click on the online application link at the top of the web page.
- Assistance is available in English, Spanish, Vietnamese, Chinese and Sign Language. Information is also available in alternative formats (Braille, enlarged text, e-text, etc.).

Concurrent Enrollment for K-12 Students (Special Admits)

The Special Admit program is designed for high school sophomores, juniors and seniors (10th, 11th and 12th grades) who would benefit from taking advanced scholastic or vocational work at Mt. San Antonio College. Students must meet the following criteria to participate in the Special Admit program:

- 1. Be recommended by their high school principal or counselor;
- 2. Be approved to participate by their parents/guardian;
- 3. Have a 3.0 cumulative high school grade point average or better to enroll in degree appropriate courses, or a 2.0 or better GPA for a vocational course;
- 4. Meet all course prerequisites and/or co-requisites;
- 5. Sophomores and juniors will only be allowed to enroll in a single course.
- 6. Seniors may enroll in two courses.

Special Admit application packets may be obtained in the Counseling Center (http://www.mtsac.edu/counseling/special_admit.html) or online.

A parent/guardian approval form allowing the student to participate must be submitted as part of the application process. Parents must

acknowledge that their student will be instructed in an adult environment and that the student will be expected to conform to all college policies.

Students who have previously enrolled and who have dropped their courses and/or have not made satisfactory progress will not be allowed to continue their participation in the Special Admit program.

Highly-gifted students enrolled in grades 9 and earlier may be considered for limited enrollment. To participate, students must meet all of the same criteria required for 10th, 11th and 12th grade Special Admit students.

All high school students will be required to attend a Special Admit orientation prior to being accepted for admission.

College credit will be earned as a result of taking courses at Mt. San Antonio College and those grades will become part of the student's permanent college record. High school credit may be possible at the discretion of the receiving high school. Students are advised to contact their high school counselor.

Only college level courses may be taken as part of the Special Admit program. Students needing to make up a high school deficiency can apply to participate in the High School Referral Program. For more information, contact the Continuing Education Center at (909) 274-4937.

Evaluation of Other College Coursework

Mt. San Antonio College reserves the right to evaluate work completed at other regionally accredited colleges and universities. Transfers with acceptable grades will be granted advanced standing insofar as the work corresponds with the curriculum of this institution or the lower-division work offered in accredited colleges or universities. Each applicant should file with Admissions and Records an official transcript of their records from all colleges and universities previously attended. For information regarding military credit, see Section 3 in this Catalog.

It is the student's responsibility to request the evaluation of official transcripts from other colleges. Students will need to request an evaluation upon submission of their graduation petition. This may be accomplished by submitting a completed "Evaluation Request" form at Admissions and Records.

Students planning to use courses taken at other colleges for placement in Mt. San Antonio College courses who did not have transcripts sent to Admissions and Records must bring official copies of their transcripts prior to their registration appointment.

Transcripts submitted for admission become the property of Mt. San Antonio College and cannot be returned to the applicant or forwarded to other institutions.

Acceptance of Domestic Coursework from Accredited Colleges & Universities in the U.S.

The College will accept "degree appropriate" or "baccalaureate" level courses from accredited colleges and universities in the United States. These course units will, at a minimum, be granted "elective credit" status.

To determine General Education and/or Associate Degree equivalency and for granting of unit credit, the course must be easily identifiable as the same course taught at Mt. San Antonio College by a commonly used course prefix, title, and description. To be verified, sufficient information, including prerequisite information, must be available from the accredited college/university to substantiate granting course equivalency and course credit. The College reserves the right to deny acceptance of any course for the purpose of General Education, Associate Degree graduation requirements, or subject requirements. If denied, the student may petition for an in-depth evaluation but will be required to provide official course information from the institution of record or from the college/university catalog.

To determine "subject" requirements for an established vocational program, the course must be evaluated by a representative from the respective academic department in which the major resides. If the course is determined acceptable as a substitution for a required course in the program, the department representative will complete a "variance" form verifying this acceptance and complete the paperwork at Admissions and Records.

Acceptance of International Coursework from Accredited Colleges & Universities outside the U.S.

Mt. San Antonio College may accept for equivalence, general education and courses that meet other local graduation requirements, that have been successfully completed at institutions of higher education outside the United States from international college and universities where the primary language of instruction is other than English, provided substantial documentation exists for the equivalences to be determined. The exceptions to this are courses to meet Area A: Communications in the English language and the Reading Competency requirement. These requirements must be fulfilled at a regionally accredited institution of higher education within the United States.

Students completing coursework at international higher education institutions in which English was the language of instruction may submit a petition for special review to the Admission and Records office to determine the equivalence of coursework in Area A and the Reading Competency. Mathematics course credit will only be granted for coursework completed at the level of Intermediate Algebra or higher.

Official Transcripts must be accompanied by evaluation documents provided by an approved credential evaluation agency.

Articulation with High Schools, ROPs, and Adult Schools

Articulation Agreements with secondary schools (High Schools, Regional Occupational Programs and Adult Education) are established annually during the fall and are valid for the current school year. Articulation is a faculty driven process that rewards student achievement in the Career Technical Education courses taken at the secondary level. Credit by exam is the method used to award credit for students.

Students participating in these agreements must meet an exam requirement as stated in California Code of Regulations, Title 5. Students that successfully meet the exam requirement and supply the correct paperwork will be awarded a grade and units of credit. The credits will appear with a notation of "by exam" on a Mt. SAC transcript in the semester closest to the completion of their secondary course.

Articulation with secondary programs is a time sensitive process. Secondary students must complete the required paperwork and pass required exams at the completion of their secondary course. If a course sequence is required at the secondary level, the student must request the units at the completion of the course sequence. The required paperwork must be submitted by the instructor of record on the Articulation Agreement within two months of course or sequence completion. Students may not seek college units retroactively.

Required paperwork includes:

- Student Articulation Request Form
- High School Transcript
- ROP/Adult Education Certificate of Completion

Forms are available from participating high school instructors. Secondary instructors submit all required paperwork to the Career Pathways Articulation office at Mt. San Antonio College. Articulation forms will be accepted from authorized secondary instructors only.

College credit issued by ROP and/or Adult Education centers will be accepted if the issuing program is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) or the Senior College Commission, under the auspices of the Western Association of Schools and Colleges (WASC).

For more information on High Schools, ROPs, and Adult Schools, please contact the Career Pathways Articulation Office at (909) 274-5252.

Registration

Registration for classes is conducted online via the web at MyPortal (http://my.mtsac.edu). Students who enrolled in the previous semester or session preceding the enrollment term are eligible to register for classes. Students may check their date and time to register at MyPortal (http://my.mtsac.edu).

Schedule of Classes

The Mt. SAC Schedule of Classes, which indicates intended course offerings and teaching assignments for credit, noncredit and continuing education courses, is available on the Mt. SAC website at schedule of classes (http://www.mtsac.edu/schedule). The College reserves the right to cancel, reschedule or combine classes and to change professors where such action is deemed necessary.

Enrollment Fees and Expenses

Students are charged an enrollment fee of \$46 per unit and a mandatory Health Services fee for each term at Mt. San Antonio College. A Student Representation fee, a Student Transportation Fee and an optional Student Activities fee are collected for Fall and Spring semesters only. In addition to these fees, non-resident and international students also pay tuition of \$241 per unit. Students wishing to park in the student parking lots are required to have a valid Student Parking Permit which can be purchased online through the student portal. Fees are subject to change. Financial aid, scholarships and the Board of Governor's Fee Waiver (BOGW) may be available to assist with fee payment. Please consult the Schedule of Classes online for current fees and related information. (BP 5030, AP 5030)

Students are responsible for purchase of their own textbooks and supplies. Costs for books and supplies for full-time students may average \$300-\$600 per semester depending on the program of study selected.

Student Representation Fee

The Student Representation Fee is a mandatory fee that is collected during fall and spring registration for the purpose of providing Mt. SAC students the means to state their positions and viewpoints before city, county, district, and state government agencies. A student may choose not to pay the Student Representation Fee for political, religious, financial, or moral reasons. If a student chooses to opt-out of paying the fee for the stated reasons, then the student must:

 visit the Student Life Office in Building 9C or online at associated students (http://as.mtsac.edu) to get the opt-out form;

- 2. complete the form and;
- 3. return it to the Bursar's Office prior to paying the college fees.

Student Transportation Fee

Effective Summer 2015, a mandatory transportation fee for the Foothill Transit Class Pass Program will be charged to full and part-time students. California Education Code Section 76361 authorizes the governing board to require students to pay a fee for the purposes of partially or fully recovering transportation costs incurred by Mt. SAC.

Refund of Fees

To be eligible for a refund, students must drop their classes by the refund deadline for that class. The deadline can be found on their Student Schedule/Receipt (Student Portal # 11). If the student's class has been officially dropped, or cancelled by the College, the student will receive a refund. Please see the current Schedule of Classes for refund information.

 Military Refund: In the case of students who are members of an active or reserve military unit and who receive orders compelling a withdrawal from courses, the College shall, upon petition by the affected student, refund the parking fee, health fee, student activities fee, entire enrollment fee and non-resident tuition fee unless academic credit is awarded.

Cancelled Classes

Classes may be cancelled at the discretion of the College. Students enrolled in such a class will be permitted to enroll in other open classes. Students who have a class or classes cancelled by the College because of low enrollment and have paid their fees for those classes will receive a refund.

Student Obligations

Mt. San Antonio College will withhold grades, transcripts, diplomas, and registration privileges, or any combination thereof, from any student or former student who fails to pay a valid financial obligation to the College (e.g., returned check, unpaid enrollment fees, unpaid loan, equipment breakage, etc.). The hold shall be released when the student satisfactorily meets the financial obligation. When an outstanding financial obligation owed to the College is sent to our collection agencies, Chancellor's Office Tax Offset Program, the collection cost incurred will be added to the original amount owed.

There is a processing fee of \$25 for returned checks or stop payment of checks.

Any student having a disciplinary hold with the Student Life Office will not be allowed to transact College business until the hold is satisfied. (BP 5035, AP 5035)

Residency Guidelines

This statement is a general summary of the principal rules of residency and their exceptions and should not be construed as the actual expression of the laws used by the Mt. San Antonio College Admissions Officer for residency determination. Reference should be made to Chapter 1 (commencing with Section 68000) of Part 41 of Division 5 of the California Education Code, regulations of the Board of Governors of the California Community Colleges in Chapter 5 (commencing with Section 54000) of Division 6 of Title 5 of the California Code of Regulations, and the regulations and guidelines available in the Admissions and Records Office. Students wishing to change their residency must submit a Residency Reclassification form to the Admissions & Records Office prior to the deadline listed in the Schedule of Classes.

Residence Classification

Each person enrolled in or applying for admission to Mt. San Antonio College will, for purposes of admission and/or tuition, be classified as a "resident," or a "nonresident."

- Resident: A "resident" is a person who is eligible to establish California residency for tuition purposes or who has resided within California for at least one year and who has established a legal residence in California prior to the residency determination date.
- 2. **Nonresident**: A "nonresident" student is one who has not resided in the State for more than one year prior to the residency determination date and who has not established legal residence or who is not eligible to establish California residency for tuition purposes.

Criteria for Determination of Legal Residence

To determine a person's place of residence, reference is made to the following:

- 1. Every person has, by law, a residence.
- 2. Every person who is married or 18 years of age or older, and under no legal disability to do so, may establish residence.
- 3. In determining the place of residence, the following rules are to be observed:
 - a. There can be only one residence.
 - b. A residence is the place where one remains when not called elsewhere for labor or other special or temporary purposes, and to which that person returns in seasons of repose.
 - c. A residence cannot be lost until another is gained.
 - d. The residence can be established and/or changed only by the union of act and intent.
 - e. A man or a woman may establish his or her residence. Thus, it is possible that a woman who is married to, and living with, her husband may have a residence separate from his. A woman's residence shall not be derivative from that of her husband.
 - f. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his or her residence is that of the parent with whom he/she maintained his or her last place of abode; however, the minor may establish his or her own residence provided both parents are deceased and a legal guardian has not been appointed.
 - g. The residence of an unmarried minor who has a living parent cannot be changed by his or her own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the student qualifies for the self-supporting exception.

Burden of Proof

The burden of proof is on the student to clearly demonstrate both physical presence in California and intent to establish California residence.

Residence Classification Appeal

Any student, following a final decision on residency classification by the Admissions and Records Office, may make a written appeal to the Appeals Committee of Mt. San Antonio College within 30 calendar days of notification of final decision regarding classification.

Admission of International Students

Mt. San Antonio College encourages applications from students holding or attempting to obtain the F-1 Visa. The following items are required from international applicants:

- Mt. SAC Application for Admission
- · International (F-1 Visa) Student Application
- Application processing fee of \$50.00 (Must be paid in U.S. currency (check or money order) made payable to Mt. San Antonio College. Personal checks must have the accountholder's name and address preprinted on them.)
- Confidential Financial support documents
- · Qualifying score from one of the following College approved tests:
 - TOEFL (minimum score of 133 on the computer-based test, or 450 on the paper-based test, or a score of 45 on the Internet-based test). Information regarding TOEFL may be obtained at www.toefl.org (http://www.toefl.org). If you are mailing your score directly, our institution code is "4494".
 - 2. IELTS (overall band score of 4.5 or higher). Information regarding IELTS may be obtained at www.ielts.org (http:// www.ielts.org).
 - Mt. SAC's AWE (Assessment of Written English) -Placement in AMLA 41W or higher. Information regarding the AWE may be obtained online (Assessment Test information (http://www.mtsac.edu/assessment/ testinfo.html))
- · Transcripts from high school and/or college attended
- TB (tuberculosis) test
- Medical Insurance (after acceptance to Mt. SAC): Mt. San Antonio College mandates International (F-1) Students to purchase medical coverage through Student Insurance. *After acceptance to Mt. SAC, F-1 students must sign up by contacting Student Insurance at 310-826-5688 or www.studentinsuranceusa.com.*

The following items are required for current F-1 Visa students transferring into Mt. SAC:

- Copy of I-20
- Copy of I-94
- Transfer form

The deadlines to apply for the school year are as follows:

| | Application Deadline | Classes Begin |
|---------------------|----------------------------|---------------|
| Fall Semester | First Monday of May | Late August |
| Summer Intersession | First Monday of March | Late June |
| Spring Semester | First Monday of October | Late February |

F-1 Visa students can obtain all application materials from our College Website (International Students (http://www.mtsac.edu/international)). (http://www.mtsac.edu/international) TOEFL scores, IELTS scores, admission applications (both college and International Student Application), and all supporting materials must be received on or before the term deadlines listed above. Students will be required to take the Assessment of Written English (AWE) when they arrive at Mt. San Antonio College. Applications received after the deadline will be considered for the following semester. The application fee must accompany the admission application. (AP 5010)

Assessment and Placement

Students attending Mt. San Antonio College are required to participate in assessment. The assessment and placement process has been established to enable all students an opportunity to achieve probable success in their course work. In addition, the process allows the faculty to instruct their courses at an appropriate level with the knowledge that students will be reasonably prepared. For more information, visit assessment (http://www.mtsac.edu/assessment). (http:// www.mtsac.edu/assessment)

Placement Tests

Placement tests are required for appropriate course placement. Students take placement exams for Math, English, Chemistry and Reading courses. Advanced level math placement exams should be taken when applicable to the student's academic background and intended program of study.

Test Information Sessions

The sessions will prepare students to take the English and Math placement test and provide an opportunity for students to ask questions. The information sessions will also provide strategies and resources. For further information, contact the Assessment Center at (909) 274-4265 or visit assessment (http://www.mtsac.edu/assessment).

English Placement

The College utilizes the Assessment of Written English (AWE) to evaluate students' writing skills. Most students are required to have their English competency assessed prior to registration. Students will be given a writing prompt and the writing sample will be evaluated by at least two faculty members. Based on the faculty evaluation of the student's writing skills, they are placed in one of the following categories:

- A. Eligible for English classes. Based on assessment results, students will be eligible for either ENGL 1A, ENGL 68, ENGL 67, or LERN 81.
- B. Eligible for AMLA writing courses (designed for students who are not fluent in the English language). Students may enroll in AMLA writing courses and continue enrolling in AMLA writing courses until they are eligible for ENGL 67 or ENGL 68.
- C. Eligible for ESL (English as Second Language) classes. Students may enroll in ESL adult education courses each semester until eligible for AMLA courses; then enroll in AMLA courses each semester until they are eligible for ENGL 67 or ENGL 68.

Students in any of the categories listed above may enroll in other courses for which they are eligible. Students with limited English skills are not prohibited from enrolling in vocational courses.

Placement in English Composition Classes

Students are placed in Composition classes as a result of appropriate scores on the Mt. SAC Assessment of Written English or equivalent prerequisite courses successfully completed ("C" or better) at other colleges that fulfill the Mt. SAC prerequisite for the respective course. Students with appropriate scores will be placed in Freshman Composition 1A. Students needing additional developmental work will be placed in ENGL 68 (Preparation for College Writing) or in both ENGL 67 (Writing Fundamentals) and ENGL 68 (Preparation for College Writing) (NO CONCURRENT ENROLLMENT). Depending upon initial placement into English courses, students are eligible for Freshman Composition (ENGL 1A) upon successful completion of ENGL 67 (Writing Fundamentals) and ENGL 68 (Preparation for College Writing). Students are encouraged to complete Freshman Composition 1A as early in their college program as possible.

Math Placement

The College utilizes a selection of assessment instruments to place students into math courses. Students take one of the math placement exams commensurate with their most recent, successful completion of Pre-Algebra, Algebra, Intermediate Algebra or Pre-Calculus.

Reading Placement

The College utilizes the Degrees of Reading Power (DRP) reading test to assess student reading skills. Based on the results of the reading test, the student will be placed in an appropriate reading course. Please be advised that the reading competency requirement for graduation can be met by attaining eligibility for READ 100.

Chemistry Placement

The College utilizes the California Chemistry Diagnostic Test to determine student readiness for CHEM 50. Students who pass the chemistry placement test will not be required to take chemistry prior to enrolling in CHEM 50.

Retest Policy

Students may repeat a test once every three months. Under certain extenuating circumstances and with approval of the Director of Assessment and Matriculation, a test may be repeated prior to the threemonth limit.

Placement Test and Eligibility Time Limits

Placement test scores are valid for two years from the date the test was taken. Eligibility based on test placement is not valid after the two-year period. Eligibility based on previous coursework does not expire.

Test Scores and Placement from Other Colleges

Math and reading test scores will be accepted from other colleges if that college uses the same test as Mt. SAC. Test scores from other college English tests are not accepted. Mt. SAC does not accept placement granted at other colleges.

Appeals Process

Students may appeal their English and/or Math placement if they can demonstrate alternate proof of course equivalency or competency. If extenuating circumstances exist that may affect course placement, students may seek consultation in the appropriate division office. Students should be prepared to present documentation such as high school or college transcripts, additional test results, or work experience.

Counseling, Advisement & Orientation

Counseling Center services are provided to enrolled students who are in need of additional assistance regarding course selection, major selection, and transfer information and planning. Students are encouraged to meet with a counselor during their first semester of enrollment to develop an Educational Plan. The Educational Plan lists the courses needed to complete a specific major, as well as identifying graduation and/or transfer requirements in general education.

Students who are undecided about their major and/or career and educational goals, should make an appointment with a counselor. Career counseling services are available to students at no cost, to assist students in making the most appropriate choices about their future.

Exemption from Assessment, Orientation, and Counseling, Advising, or Education Plan Development

The goal of the Student Success and Support Program is to increase student access and success by providing core SSSP services, including (1) orientation, (2) assessment and placement, and (3) counseling, advising and other education planning services with the goal and declared course of study.

Exemptions from Student Success and Support Program

As part of the matriculation process, the following services are provided, which students may choose to request exemption. If you are requesting an exemption, please identify the basis for your request.

A student is exempt from assessment, orientation, and counseling, advising, or education plan development if the student has:

- 1. graduated with an Associate degree or higher from a regionally accredited institution. Must provide a copy of transcripts as documentation of degree attainment.
- enrolled at the college for a reason other than career development or advancement, transfer, attainment of a degree or certificate of achievement, or completion of a basic skills or English as a Second Language course sequence.
- 3. earned 60 units or more from a regionally accredited institution. Must provide a copy of transcripts as documentation of units earned from another institution.
- enrolled at Mt. SAC solely to take a course that is legally mandated for employment as defined in section 55000 or necessary in response to a significant change in industry or licensure standings.
- 5. enrolled as a special admit student pursuant to Education Code section 76001.

Orientation – Credit Students

Orientation is required for all new students who are enrolling in Mt. San Antonio College. Orientation includes information regarding college programs, services, procedures, student responsibilities, and other related information.

The College has determined the importance of an orientation to college as a factor in success. Prospective students are urged to make an appointment for orientation immediately after filing an application and taking the necessary placement tests.

Visit New Student Orientation (http://www.mtsac.edu/counseling/ orientation.html).

Prerequisites, Corequisites, and Advisories

Mt. SAC faculty have established prerequisites, corequisites and advisories for courses. If a student does not meet the prerequisite or corequisite requirements, the student will be blocked from enrolling in those courses. Transcripts and grade report cards from other colleges used to determine whether pre or corequisites have been met must be evaluated prior to registration.

Prerequisite

Prerequisites to a course are those courses which must have been taken previously as preparation for the course. To enroll in a class that has a prerequisite, the required preparation must have been completed prior to enrolling in the course. In some instances, **English and Math prerequisites** may be met by attaining eligibility through assessment. All **course prerequisites** listed must be completed with a grade of "C" or better, unless otherwise stated.

Corequisite

To enroll in a course that has a corequisite, the corequisite course must be taken concurrently. In some instances, a corequisite may have been taken previously.

Advisory

An advisory to a course is preparation which is highly recommended by faculty teaching the course. Although students may enroll in a course if they do not possess the advisory skills, they are encouraged to abide by an advisory whenever possible.

Challenging Prerequisites and Corequisites

In accordance with Title 5 Section 55003(p) and (q), Student Challenge of Prerequisites or Corequisites, students may challenge a prerequisite or corequisite for a course. A prerequisite or corequisite cannot be "waived," but students have the ability to demonstrate that they meet the prerequisite or corequisite on the following criteria, and course eligibility may be granted. The challenge must be based on at least one of the following specific grounds:

- The College will accept prerequisite or corequisite courses from regionally accredited colleges and universities in the United States. (The student will meet with the appropriate department chair)
- A student may request a prerequisite or corequisite variance to demonstrate that the student has the knowledge or ability equivalent to the prerequisite or corequisite for the course in question, but has not formally met the established prerequisite or corequisite. (The student will meet with the appropriate department chair)
- The prerequisite or corequisite course has not been made reasonably available, and waiting until the prerequisite or corequisite is offered will create an undue delay in meeting educational goals. (The student will meet with the Director of Assessment and Matriculation)
- The prerequisite or corequisite is being applied in a discriminatory manner. (The student will meet with the Director of Assessment and Matriculation)
- The prerequisite violates the provisions of the State Education Code. (The student will meet with the Director of Assessment and Matriculation)

ACADEMIC POLICIES & REQUIREMENTS

Academic Freedom

It is the policy of Mt. San Antonio College to maintain and encourage freedom for its faculty, within the law, of inquiry, teaching and research, and the pursuit of knowledge. In the exercise of this right, the professor may discuss his/her subject or area of competence in the classroom, as well as other relevant matters, including controversial materials, so long as he/she distinguishes between personal opinions and what is contemporarily regarded as factual information by leading academicians in the discipline being discussed.

The professor shall use no material in any teaching assignment nor make any speech in order to incite students or others to unlawful acts or to create a clear and present danger to the students and/or the College and/ or the community. Professors may not use the classroom to promote a particular religious belief. (BP 4030, AP 4030)

Academic Standards

Probation and Dismissal

There are two forms of probation: Academic Probation and Progress Probation.

Academic Probation

A student is placed on Academic Probation when the student has:

- 1. attempted at least 12 units, and
- 2. earned a cumulative grade point average (GPA) below 2.00.

Progress Probation

A student is placed on Progress Probation when the student has:

- 1. enrolled in a total of at least 12 units, and
- the cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.

Upon recording of Academic or Progress Probation, a student shall have their registration restricted, be required to participate in a prescribed counseling intervention and be limited to enroll in a maximum of 12 units in subsequent semesters, and 4 units in a winter or summer session, while on probation. (BP 4250, AP 4250)

Clearing Probation

- 1. Academic Probation The student shall be cleared from Academic Probation when the student's cumulative grade point average is 2.0 or higher.
- 2. **Progress Probation** The student shall be cleared from Progress Probation when the student's cumulative percentage of units with "W", "I" and "NP" drops below fifty percent. (BP 4250)

Probation and Dismissal Status

- 1. Probation
 - a. Academic Probation occurs at the end of that first semester in which the student has attempted at least 12 units and has earned a cumulative grade point average below 2.0, or
 - b. Progress Probation occurs at the end of that first semester in which the student has attempted at least 12 units and the

cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.

2. Continued Probation

- a. Continued Academic Probation occurs when the student in a second consecutive semester continues to have a cumulative grade point average below 2.0, or
- b. Continued Progress Probation occurs when the student in a second consecutive semester continues to have a cumulative percentage of all units enrolled recorded as "W", "I" and "NP" at fifty percent or higher.
- 3. Dismissal occurs after three consecutive semesters of Academic or Progress Probation. The student shall be dismissed for at least two semesters. If the student has enrolled in the subsequent term before the Dismissal status has been determined through the posting of the previous semester's grades, the student shall be dropped from all classes.

For the purposes of this section, semesters shall be considered consecutive on the basis of the student's enrollment, so long as the break in the student's enrollment does not equal two primary terms or more.

Appeal of Dismissal

A student who is subject to dismissal may request an appeal of dismissal through the Counseling Department by the stated deadline prior to the beginning of the following semester. If approved, the student shall be required to participate in a prescribed counseling intervention and complete a contract, which shall include the number of units in which the student shall enroll. If the student chooses not to make the request, or the request is denied, the student shall be dismissed for at least two semesters.

Reinstatement after Dismissal

A dismissed student may request reinstatement through the Counseling Center after an interval of two semesters. Requests must be made **no later than two weeks before** the beginning of the Fall or Spring semesters only. Requests for reinstatement will not be allowed after the above stated deadline or for Winter and Summer terms. If approved, the reinstated student shall be required to participate in a prescribed counseling intervention and complete a contract for reinstatement, which shall include the number of units in which the student shall enroll.

A reinstated student shall remain on a probationary, reinstated status until clearance of probation and must see a counselor with an academic progress report for unit clearance prior to every registration period. A reinstated student shall also remain on contract until clearance of probation. Failure to comply with the terms and conditions of the contracts may result in subsequent dismissal. (BP 4250, AP 4255)

Attendance

Students are expected to attend all class meetings. It is the students' responsibility to know the attendance and absence policies of their professors.

Professors may take attendance at all class meetings. It is the responsibility of each professor to inform his/her classes of the attendance and absence policies at the beginning of each semester.

It is the student's responsibility to officially drop a class whenever he or she determines that he or she can no longer attend the class. Failure to officially drop a class may result in a failing grade and/or a financial obligation to the college.

Professors may drop students from their class rolls through the last day of the tenth week of instruction of a regular semester for excessive absence as defined by the professor or at an earlier date for intersession or short-term classes.

Students on college-authorized field trips will not be penalized for absences incurred in other classes during the field trips (AP 4300).

Auditing Courses

Students may not audit courses at Mt. San Antonio College. All students must be officially enrolled in a course in order to attend that course.

Student Unit Limits

Students may enroll in a maximum of 18 units each semester and up to seven units each summer and winter session. Students who have completed a minimum of 15 college units in a given semester with a grade point average of at least 3.0 and have a minimum cumulative grade point average of at least 3.0 may petition for permission to enroll in units above the maximum.

Students are required to see a counselor as part of the petition process. Petitions are available in the Counseling Office, located on the upper level of the Student Services Center.

100 Unit Appeal

New state regulations (effective summer 2014) impact your registration date if you have earned more than 100 degree applicable units at Mt. SAC. If you have already surpassed or if you will have earned 100 or more degree applicable units when registration begins for any term (starting with summer 2014), you will be assigned a later registration date.

Students who have completed 100 or more degree applicable units may file an appeal with the Counseling Center to keep their original registration date for the following term. The 100 Unit Appeal form can be downloaded from the Counseling website (Over 100-Unit Appeal (http:// www.mtsac.edu/counseling/forms.html)). There will be a deadline for submitting this form every term. **The deadline date is advertised on the appeal form.** Forms are also available at the Counseling Center Building 9B, second floor.

If you wish to appeal to keep your original registration date for the next term, you must make an appointment to see a counselor or advisor to create an educational plan and to clarify what else is required for the appeal. You can make an appointment with a counselor or advisor online through the Counseling website above, in person or by calling (909) 274-4380.

Basic Skills Limitations

Students are limited to completing no more than 30 units of courses identified as "Pre-collegiate Basic Skills" while enrolled at Mt. SAC. Courses in this category include pre-collegiate basic skills courses in Math, English, Reading, and Learning Skills. Students enrolled in the American Language program and students with learning disabilities are exempted from this policy. Waivers to exceed the 30 unit limit are available to students who show significant progress and will be limited to a specified period of time and/or number of units. Students requesting this waiver must submit a Petition for Exceptional Action to the Board of Appeals. Petitions are available in the Counseling Center and in Admissions & Records. Students who reach 30 units of pre-collegiate basic skills courses and who are not ready to pursue degree applicable courses are subject to remedial dismissal. (BP 4220, AP 4222)

Petitions for Exceptional Action

Student Petitions for Exceptional Action forms are available from the Counseling Office and Admissions and Records Office in the Student Services Center. Students may complete these forms and submit them to Admissions and Records. Subsequent action on a petition will be taken either by the appropriate administrator or the Board of Appeals.

Definitions

Primary Term: A primary term is either the Fall or Spring semester. In contrast, both Winter and Summer intersessions are not considered to be primary terms.

Continuing Student:

- A continuing student is one who enrolls in at least one credit course and receives a grade (including a W) in any term during the academic year.
- A continuing student retains rights to follow graduation and/or certificate requirements for the year they entered or any catalog thereafter, as long as the student maintains in continuous enrollment.

Catalog Rights

- A student may use that initial catalog year or any subsequent catalog until the student petitions for graduation, if the student has remained in continuous attendance.
- Continuous attendance is enrollment and attendance in a class (past the census date) in one of the immediate prior two semesters.
- In order to maintain catalog rights at Mt. SAC, based on the initial semester of enrollment, a student may:
- · Attend another regionally accredited post-secondary institution.
- Maintain "continuous attendance" at a regionally accredited postsecondary institution while away from Mt. SAC.
- Not be absent from Mt. SAC for four or more primary terms (two years).

Dropping Courses and Withdrawing from the College

It is the students' responsibility to drop or withdraw from courses they no longer attend. Students should check their schedule/receipt, available on the "My Mt SAC" portal for information regarding key dates. Dates vary and are often course specific. Failure to drop may result in a failing grade and/or fees owed.

Full 16-week courses

For 16 week courses, students who drop a class, withdraw from the college, or are dropped from a class by the professor by the Sunday at the end of the second week of classes will not receive any mark or notation on their permanent academic record.

Students who drop a class, withdraw from the college, or are dropped by the professor beginning Monday of the third week of a 16 week class will receive a mark of "W" (Withdrawal) on their permanent record.

Professors may not drop students from a class and students may not drop themselves from any class or withdraw from the college after 60% of the class has elapsed. All students who are registered for a class after 60% of the class has elapsed shall receive an academic grade (A,B,C,D,F,P,NP) or an Incomplete mark for the class.

A "W" Withdrawal mark shall not be assigned to any student enrolled after the last day to drop a class except in the case of an approved petition due to extenuating circumstances. A "W" Withdrawal remains a permanent part of a student's academic record.

Intersessions and other short term classes

For short term classes, students who drop a class, withdraw from college or are dropped from a class by the professor prior to the conclusion of the first 20% of the class will not receive any mark or notation on their permanent record.

Students who drop a class, withdraw from the college, or are dropped by the professor after 20% of the class has elapsed will receive a mark of "W" (Withdrawal) on their permanent record.

Professors may not drop students from a class and students may not drop themselves from any class or withdraw from the college after 60% of the class has elapsed. All students who are registered for a class after 60% of the class has elapsed shall receive an academic grade (A,B,C,D,F,P,NP) or an Incomplete mark for the class.

A "W" Withdrawal mark shall not be assigned to any student enrolled after the last day to drop a class except in the case of an approved petition due to extenuating circumstances. A "W" Withdrawal remains a permanent part of a student's academic record.

Repeatable Courses

Certain courses may be taken more than once for credit if the course is designated as repeatable. The course may be repeated for the number of times allowable. The following types of courses may be repeatable:

- 1. Courses for which repetition is necessary to meet the major requirements of CSU or UC for completion of a Bachelor's degree.
- 2. Intercollegiate athletics courses in which student athletes are enrolled to participate in an organized competitive sport.
- Intercollegiate academic or vocational competition courses that are designed specifically for non-athletic competitive events. Enrollment in a course or series of courses related in content is limited to four times whether or not a passing grade is earned.

There may be financial aid implications for students who are recipients of Title IV and/or state funding. Federal and state law limits financial aid funding to two enrollments in a course, unless multiple enrollment of the same course is stipulated as required for academic program completion. Please seek guidance from the Financial Aid office for further clarification.

Families of Courses

The college has grouped Families of Courses that are closely related active participatory courses in physical education, visual arts, or performing arts. Within any given course family, students are only permitted four experiences while attending Mt. San Antonio College. An experience is defined as enrolling in a course and receiving any letter grade (including D, F, NP or W). A Family of Courses may consist of more than four courses, but students are limited to enrolling in a maximum of four courses in any family. All grades, including W, will count toward the enrollment limitation of four courses.

Students can repeat courses that are included in Families of Courses in which a grade of NP, D, or F was earned or a W was assigned. However, all enrollments count toward the four enrollment maximum for each family of courses. Once a student has received four experiences in a given family, they will not be permitted to enroll in any other class within that family, even to alleviate a sub-standard grade.

These Families of Courses are listed below in the disciplines in which they apply.

Dance Families

| | C 3 | |
|-----------------|-----------------------------|-------|
| Course Prefix | Course Name | Units |
| Ballet | | |
| DNCE 1 | Ballet Fundamentals | |
| DNCE 2A | Ballet I | |
| DNCE 2B | Ballet II | |
| DNCE 31 | Classical Dance | |
| Modern Dance | | |
| DNCE 10 | Modern Fundamentals | |
| DNCE 12A | Modern I | |
| DNCE 12B | Modern II | |
| DNCE 30 | Contemporary Dance | |
| Jazz Dance | | |
| DNCE 14A | Jazz I | |
| DNCE 14B | Jazz II | |
| DNCE 17 | Jazz Fundamentals | |
| Tap and Musical | Theater | |
| DNCE 18A | Tap I | |
| DNCE 18B | Tap II | |
| DNCE 28 | Theater Dance I | |
| DNCE 29 | Theater Dance II | |
| Social Dance | | |
| DNCE 8 | Latin Dance I | |
| DNCE 11A | Social Dance Forms I | |
| DNCE 11B | Social Dance Forms II | |
| Performance Tee | chnique | |
| DNCE 3 | Ballet Performance | |
| DNCE 13 | Modern Performance | |
| DNCE 15 | Jazz Performance | |
| DNCE 19 | Tap Performance | |
| Choreography ar | nd Career | |
| DNCE 4 | Choreography | |
| DNCE 33 | Improvisation | |
| DNCE 34 | Dance Directives | |
| Stage Performan | nce | |
| DNCE 22 | Dance Rehearsal | |
| DNCE 24 | Dance Production | |
| Pilates | | |
| DNCE 39A | Alignment and Correctives I | |
| DNCE 41 | Pilates I | |
| DNCE 42 | Pilates II | |
| DNCE 43 | Pilates III | |
| Dance Condition | ing | |
| DNCE 32 | Commercial Dance | |
| DNCE 36 | Commercial Dance II | |
| DNCE 40 | Conditioning Through Dance | |
| | | |

Fine Arts Families

| Course Prefix | Course Name | Units |
|------------------|---------------------------|-------|
| Foundational Cou | irses | |
| ARTD 20 | Design: Two-Dimensional | |
| ARTS 22 | Design: Three-Dimensional | |

| ARTS 33 | Ceramics: Hand Construction |
|-------------------|--|
| Color Concentps | |
| ARTD 15B | Drawing: Intermediate |
| ARTD 21 | Design: Color and Composition |
| ARTD 25A | Beginning Painting I |
| ARTD 27 | Painting: Watercolor |
| Drawing | |
| ANIM 104 | Drawing Fundamentals |
| ARTD 15A | Drawing: Beginning |
| ARTD 16 | Drawing: Perspective |
| ARTD 43A | Introduction to Printmaking |
| Gesture | |
| ANIM 101A | Drawing - Gesture and Figure |
| ANIM 101B | Figure Gesture - Design |
| ANIM 101C | Figure Gesture Expressive Design |
| ANIM 107 | Figure in Motion |
| Anatomical Stud | - |
| ARTD 17A | Drawing: Life |
| ARTD 17B | Drawing: Life-Advanced |
| ARTD 19A | Figure Painting |
| ARTD 23B | Drawing: Advanced Heads and Hands |
| Figure Concepts | |
| ARTD 23A | Drawing: Heads and Hands |
| ARTD 23C | Drawing: Expressive Heads and Hands |
| ANIM 111A | Animal Drawing |
| ANIM 111B | Animal Drawing |
| Painting | |
| ARTD 25B | Beginning Painting II |
| ARTD 26A | Intermediate Painting I |
| ARTD 26B | Intermediate Painting II |
| Ceramics | |
| ARTS 30A | Ceramics: Beginning I |
| ARTS 30B | Ceramics: Beginning II |
| ARTS 31 | Ceramics: Advanced Studio |
| Sculpture | |
| ARTS 40A | Sculpture: Beginning |
| ARTS 40B | Sculpture: Intermediate |
| ARTS 40C | Sculpture: Carving |
| ARTS 41A | Sculpture: Life |
| Molding | |
| ARTS 42 | Sculpture: Mold Making |
| ARTS 46A | Sculpture: Special Effects Makeup |
| ARTS 46B | Sculpture: Special Effects Makeup |
| ARTS 41B | Sculpture: Intermediate Life |
| Planography | |
| ARTD 44A | Printmaking: Introduction to Lithography I |
| ARTD 45A | Printmaking: Introduction to Screenprinting |
| ARTD 45B | Printmaking: Intermediate Screenprinting |
| Intaglio Printmak | |
| ARTD 43B | Intermediate Printmaking in Intaglio and Relief |
| ARTD 46A | Printmaking: Introduction to Monotype |
| | |

| ARTD 47A | Printmaking: Photo and Alternative Processes | |
|----------------------|---|-------|
| Art Survey and E | xhibition | |
| ARTB 14 | Basic Studio Arts | |
| ARTG 20 | Art, Artists and Society | |
| ARTG 21A | Introduction to Exhibition Production | |
| ARTG 21B | Intermediate Exhibition Production | |
| Vinceielemu | Familias | |
| Kinesiology | | |
| Course Prefix | Course Name | Units |
| Aquatics | | |
| KINA 8A | Swimming - Beginning | |
| KINA 8B | Swimming - Intermediate | |
| KINA 8C | Swimming - Advanced | |
| KINA 14 | Water Polo | |
| KINA 20 | Aquatic Fitness | |
| | y and Body Composition | |
| KINF 4 | Cardiovascular Conditioning | |
| KINF 34A | Cardiorespiratory Training Beginning | |
| KINF 34B | Cardiorespiratory Training Intermediate | |
| KINF 38A | Aerobics-Beginning | |
| KINF 38B | Aerobics | |
| Combatives | | |
| KINI 25 | Mixed Martial Arts | |
| KINI 27A | Jeet Kune Do - Beginning | |
| KINI 27B | Jeet Kune Do - Intermediate | |
| KINI 29 | Self Defense and Martial Arts | |
| KINI 30A | Filipino Martial Arts - Beginning | |
| KINI 30B | Filipino Martial Arts - Intermediate | |
| KINI 31A | Jiujitsu - Beginning | |
| KINI 31B | Jiujitsu - Intermediate | |
| KINI 33A | Kickboxing Beginning | |
| KINI 33B | Kickboxing Intermediate | |
| KINI 34 | Women's Self Defense | |
| Muscular Streng | th and Endurance | |
| KINF 10A | Weight Training - Beginning | |
| KINF 10B | Weight Training - Intermediate | |
| KINF 19 | Strength Training | |
| KINF 25 | Core Performance and Foundation Movement | |
| KINF 36A | Circuit Training Beginning | |
| KINF 36B | Circuit Training Intermediate | |
| Indivicual Sports | - | |
| KINI 4A | Badminton - Beginning | |
| KINI 4B | Badminton - Intermediate | |
| KINI 4C | Badminton - Advanced | |
| KINI 40 | Golf - Beginning | |
| KINI 18A | Golf - Intermediate | |
| KINI 186 KINI 18C | Golf - Advanced | |
| KINI 18C KINI 40A | | |
| | Tennis - Beginning Tennis - Intermediate | |
| KINI 40B KINI 40C | Tennis - Advanced | |
| | | |
| Flexibility and Ba | สสแนะ | |

| KI | INI 37A | Tai Chi Chuan - Beginning |
|------|--------------|---|
| KI | INI 37B | Tai Chi Chuan - Intermediate |
| KI | INI 37C | Tai Chi Chuan - Advanced |
| KI | INI 50A | Yoga |
| Tean | n Sports | |
| KI | INS 2A | Basketball Beginning |
| KI | INS 2B | Basketball Intermediate |
| KI | INS 10A | Beginning Soccer |
| KI | INS 10B | Soccer Intermediate |
| KI | NS 16 | Softball |
| KI | INS 24A | Volleyball - Beginning |
| KI | INS 24B | Volleyball - Intermediate |
| KI | NS 24C | Volleyball - Advanced |
| Fire | Technology/A | Administration of Justice |
| KI | INF 51A | Agility Test Preparation Law and Fire - Beginning |
| KI | INF 51B | Agility Test Preparation Law and Fire - Intermediate |
| KI | INF 52A | Fitness and Conditioning for Law and Fire - Beginning |
| KI | INF 52B | Fitness and Conditioning for Law and Fire - Intermediate |
| KI | INF 53 | Physical Training for the Basic Fire Academy |

Music Families

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| Class Piano | | |
| | dents with emphasis on learning basic piano | |
| skills and piano | | |
| MUS 17A | Elementary Piano | |
| MUS 17B | Intermediate Piano | |
| MUS 18 | Advanced Piano | |
| Key Board Skills | ; | |
| | sic majors with emphasis on developing for the music educator. | |
| MUS 10B | Keyboard Skills | |
| MUS 10A | Keyboard Skills | |
| Class Vocal Stu | dy | |
| Intended for all | students. | |
| MUS 20A | Elementary Voice | |
| MUS 20B | Intermediate Voice | |
| MUS 21 | Advanced Voice | |
| Class Guitar | | |
| Intended for all | students | |
| MUS 23A | Elementary Guitar | |
| MUS 23B | Intermediate Guitar | |
| MUS 24 | Advanced Guitar | |
| Techniques | | |
| For the develop | nent of technical skills | |
| MUS 25A | Jazz Improvisation | |
| MUS 25B | Advanced Jazz Improvisation | |

Academic Honors

- **President's List** The President's List is an honors list comprised of those students who have achieved a 3.50 or better grade point average in a minimum of twelve (12) letter-graded Associate Degree applicable units per semester at Mt. San Antonio College.
- **Dean's List** The Dean's List is an honors list comprised of those students who have achieved between a 3.0 to 3.49 grade point average in a minimum of twelve (12) letter-graded Associate Degree applicable units per semester at Mt. San Antonio College.

Graduation Honors

- Academic Distinction The "Academic Distinction Honor" designation is placed on the transcript and degree of the graduate who has achieved an overall grade point average (GPA) of 4.00.
- Scholastic Honor The "Scholastic Honor" designation is placed on the transcript of the graduate who has achieved an overall grade point average (GPA) of 3.90 through 3.99.
- With Honors The "With Honors" designation is placed on the transcripts and degree of the graduate who has achieved an overall grade point average (GPA) of 3.75 through 3.89.

Honors Program Building 26A-1680, (909) 274-4528

Mt. San Antonio College offers an Honors Program for students who have demonstrated academic excellence. Honors courses are specially designed sections of transferable courses and, with a few exceptions, are part of the IGETC requirement list.

Completion of the Honors Program makes a student eligible for priority admission consideration from the following universities: UCLA, UC Irvine, Chapman University, Pitzer College and Pomona College. In addition to an enhanced curriculum for motivated students, Honors Program students receive library privileges at UC Irvine and UCLA and an Honors Certificate and medal upon honors certification.

Entrance Requirements

- High School Students Eligibility for ENGL 1A (http:// catalog.mtsac.edu/archive/2017-2018/search/?P=ENGL%201A); 3.5 GPA; letter of recommendation; short essay
- Mt. San Antonio College Students Nine transferable units; Eligibility for ENGL 1A (http://catalog.mtsac.edu/archive/2017-2018/search/? P=ENGL%201A); 3.2 GPA, short essay, letter of recommendation (Waivers can be obtained through the Honors Program Office for highly motivated students with a competitive GPA, an in-progress grade report and professor recommendation.)

Requirements for "Honors Scholar" Designation

- Complete 15 units of honors courses with a minimum 3.2 GPA for honors certification
- Maintain a 3.2 GPA

Alpha Gamma Sigma

Mt. San Antonio College sponsors the Zeta Chapter of Alpha Gamma Sigma, the scholastic honorary organization for California Community Colleges. Full-time and part-time students are eligible for membership. Membership requires campus and community involvement (service hours).

There are three categories of membership eligibility. Only degree appropriate courses/units (those that grant credit for an Associate or

Bachelor's degree) may be used to establish eligibility for membership (Exception: Temporary Membership).

- 1. **Temporary**: (First college semester only) Must hold a California Scholastic Federation (CSF) Life Membership OR be a high school graduate with a cumulative grade point average of 3.5 or higher. This membership is intended as an introduction to Alpha Gamma Sigma and is not to be considered as an initial membership.
- 2. Initial: (First time membership) Must have completed 12 degree appropriate units in a maximum of three (3) semesters with a degree appropriate cumulative grade point average of 3.0 or higher.
- 3. **Continuing**: (Previous membership) Must have achieved for the previous semester a degree appropriate grade point average of 3.0 or higher OR have maintained a degree appropriate cumulative grade point average of 3.0 or higher.

Permanent membership in Alpha Gamma Sigma is an honorary lifetime AGS title for students who have completed 60 degree appropriate units; a minimum of 30 of the total 60 units must have been completed at Mt. SAC. A permanent membership application must be submitted by the graduation petition deadline. To apply students must: a) have a cumulative G.P.A of 3.25 or higher for 60 completed degree appropriate units and, b) complete a minimum of two semesters as an active or inactive member. Only permanent members receive recognition at graduation. Scholarships provided by the Zeta Chapter and the State Alpha Gamma Sigma Organization are available to actively involved members. Some baccalaureate granting institutions provide scholarships limited to Alpha Gamma Sigma members. Applications are available in Student Life, Building 9C. For further information and review of academic eligibility, students should consult an Alpha Gamma Sigma Officer or an Alpha Gamma Sigma Advisor.

Phi Theta Kappa

Mt. SAC sponsors the Alpha Omega Alpha Chapter of Phi Theta Kappa, an international scholastic honorary organization for two-year colleges. Eligibility for membership is established for the following:

- 1. Full and part-time students who have completed 12 appropriate degree units with a 3.5 grade point average at an accredited institution.
- 2. Students who have maintained a 3.5 grade point average while a member.

There are several advantages which accompany this honor, including recognition at graduation and access to scholarships offered to members by more than 700 U.S. colleges and universities. For further information and review of academic eligibility, students should consult a Counselor or a Phi Theta Kappa advisor. Applications are available in the Honors Program office in Building 26A-1680.

Definition of Educational Records

Educational records consist of those files maintained by the following offices: Admissions and Records, Counseling, Assessment, Financial Aid, and those files maintained for individual students by departments.

Challenge of Educational Records

 Any student may file a written request with the Records Officer of the District (Dean, Enrollment Management) to remove information recorded in the student's records which is alleged to be: 1) inaccurate;
 an unsubstantiated personal conclusion or inference; 3) a conclusion or inference outside of the observer's area of competence; or 4) not based on the personal observation of the named person with the time and place of the observation of the named person with the time and place of the observation noted.

2. If the student is not satisfied with the determination made by the Dean, Enrollment Management, the student may utilize the existing college student grievance process. (AP 5045)

Academic Renewal

The Academic Renewal Policy is provided for students in specific circumstances where previously recorded substandard academic performance is not reflective of the student's present demonstrated ability. Academic renewal applies only to substandard coursework completed at Mt. SAC. Students with substandard coursework at other colleges/universities need to contact those institutions to see if they are eligible for academic renewal under the provisions of academic renewal of said institution.

- 1. A maximum of twenty-four units may be alleviated.
- 2. Since completion of the work to be disregarded, the student's cumulative grade point average for all units completed at the time of adjustment must be at least 3.0 for 18 semester units, 2.5 for 24 semester units, or 2.0 for 30 units. The cumulative grade point average may include coursework completed at Mt. San Antonio College and/or other accredited colleges or universities. Courses used to qualify for Academic Renewal which were completed at another college or university must be verified by official college transcripts.
- 3. A time period of at least two years must have elapsed since the end of the term of substandard work to be disregarded.
- 4. Academic renewal will apply only to substandard grades: D, F, and NP.
- 5. The permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.
- 6. Mt. San Antonio College does not guarantee that academic renewal will be honored by institutions outside of the District. This determination will be made by the transfer institution.
- 7. Students requesting academic renewal should meet with a counselor to file a petition. (BP 4240, AP 4240)

Transcripts

Official transcripts of work completed at Mt. San Antonio College may be ordered online through MyPortal (http://my.mtsac.edu) student portal. The first two requests for transcripts are free; subsequent standard transcript requests are \$5.00 each. Unofficial/student copies of transcripts may be obtained at MyPortal (http://my.mtsac.edu) (AP 5040)

Further information regarding transcript services is available at Records and Graduation (http://www.mtsac.edu/records/student-records/ transcripts.html)

Definition of a Unit of Credit

The standard "unit" represents one hour in class recitation and two hours of outside preparation per week or its equivalent for one semester. By this definition, "unit" is synonymous with "semester lecture hour." In laboratory work and certain activity courses such as kinesiology, choir, drafting, etc., a greater number of in class hours per week is required for each unit of credit. During intersessions, one unit of credit represents three hours of lecture per week.

Classification of Students

Students at Mt. San Antonio College are classified as follows:

| Classification of Students | Definition |
|----------------------------|---|
| Full-time | enrolled in 12 or more units in a fall or spring semester, or 4 or more units during a six-week summer or winter session |
| Part-time | enrolled in less than 12 units during the fall or spring semester or less than 4 units during a six-week session |
| Freshman | a student who has completed less than 30 units of credit |
| Sophomore | a student who has completed 30 units of credit or more |

Grading System

Scholastic grades showing the academic achievement of students are issued at the end of each semester. Any student enrolled as of the first day of the fourth week in a full semester course for any semester shall receive one of the designated grading scale marks on his/her permanent records.

Grading Scale

| Evaluative Symbol | Definition | Grade Point Value |
|-------------------|---|-------------------|
| A | Excellent | 4 |
| В | Good | 3 |
| С | Satisfactory | 2 |
| D | Passing (less than satisfactory) | 1 |
| F | Failing | 0 |
| Pass | Passing (at least equivalent to a "C" grade. Units awarded are not counted in determining the student's grade point average.) | |
| NP | Not Passing (Equivalent to a "D" or "F" grade. No units awarded, and units are not counted in determining grade point average. No-Credit grades will be considered in probation and dismissal procedures.) | |

Incomplete

A student may request an Incomplete or the professor may initiate the petition on behalf of the student who is currently passing the class under the following circumstances: verifiable illness or emergency or verifiable work conflict. Incompletes may only be issued for requirements missed commencing the fourteenth (14) week of a regular semester class or after 85% of a short-term or summer or winter intersession class. Reenrollment in the same course for purposes of making up the Incomplete is prohibited. The petition is subject to the approval of the professor. If granted, the student must complete all outstanding course requirements

stipulated by the professor within one year, or the Incomplete will become a letter grade assigned by the professor.

| Grading System | Definition |
|---------------------|--|
| IP - In Progress | The "IP" symbol shall be used to denote that the class extends beyond the normal end of an academic term. It indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the course is completed. |
| RD - Report Delayed | The "RD" symbol may be assigned only by the Admissions and Records Office. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" shall not be used in calculating grade point averages. |
| W - Withdrawal | Withdrawal from a class or classes shall be authorized through the last day of the 10th week of instruction of a regular semester-length class. No notation ("W" or other) shall be made on the academic record of the student who withdraws during the first three weeks of a regular semester-length class. Withdrawal between the first day of the 4th week and the last day of the 10th week of instruction shall be recorded as a "W" on the student's record. The "W" shall not be used in calculating grade point averages, but excessive "W's" shall be used as factors in probation and dismissal procedures. Withdrawal from short term classes of less than semester length, but greater than six weeks, is authorized for a period of time through 60% of the course, and a mark of "W" shall be made on the student's academic record. No notation shall be made on the academic record of a student who withdraws from a short term class of less than semester length, but greater than six weeks, provided the student withdraws no later than the end of the first 20% of the course. |

MW - Military Withdrawal

The "MW," military withdrawal, mark shall be assigned only for students who are members of an active or reserve military unit, and who receive orders compelling a withdrawal from courses. Upon verification of such order, this symbol may be assigned at any time after the period established by the governing board during which no notation is made for withdrawals. The "MW" shall not be counted in determining registration priority, progress probation, and dismissal calculations. A "W" previously incurred commencing January 1, 1990, and which meets the definition of "MW" may be changed to "MW." (AP 5013)

Final Examinations

A final examination shall be administered in all classes in compliance with the Final Exam Schedule prepared each term. If a student is unable to attend a scheduled final examination, he/she must contact his/her instructor to make other arrangements. A student who does not take a final examination and who does not qualify for an "Incomplete" (see Grading System-Incomplete), shall be assigned the grade "F" or "Zero" for the examination, and this grade shall be averaged in determining the final course grade.

Pass/No Pass Grades

The Pass or No Pass (P or NP) grading option was designed to encourage students to explore subject areas of interest outside of their major areas of competence or known abilities without being overly concerned with a grade or with jeopardizing their grade point average and to afford an opportunity for departments to offer courses in which there is a diminished emphasis on grades.

Courses may be offered for Pass or No Pass in either of the following categories and will be specified in the catalog and schedule of classes:

Pass/No Pass Only Grade

Courses wherein all students are evaluated on a Pass or No Pass basis only.

· Option of Letter Grade or Pass/ No Pass Grade

Courses in which each student has the option to individually elect Pass or No Pass or letter grade.

In courses offering the grading option, students are automatically registered on a letter grade basis at the time of registration. If a change is desired, the student can make the change on their student portal within the first 20% of the course or in person with a picture ID at the Admissions and Records Office located in the Student Services Center (Bldg 9B) within the first 30% of the course. The grading option is not reversible after the deadline to request a grade change has passed.

The student is held responsible for all assignments and examinations required in the course. The standards of evaluation are identical for all students in the course. A grade of "P" is earned for coursework equal to a grade of "C" or better. A grade of "NP" is earned for coursework

equal to a grade of "D" or "F". Neither "P" nor "NP" grades are used in computation of grade point average; however, P or NP units will appear on the transcript of record.

Students are advised that four-year institutions may limit the number of units acceptable for transfer completed with a P or NP notation. Students should investigate the policies of the institutions to which they may wish to transfer to determine the acceptability of P (Pass) grades in courses in the student's major. Before selecting the pass or no pass option, students should consult with a counselor.

Credit for Extra Institutional Learning

Philosophical Basis

This policy of granting credit for extra-institutional learning is provided for students under special conditions in recognition of learning that has been attained outside the sponsorship of legally authorized and accredited post-secondary institutions. (AP 4285)

General Policy Statement

Credit for extra-institutional learning will be awarded to those students who have attained competency of subject matter through experiences outside of the sponsorship of legally authorized and accredited postsecondary institutions.

The College will accept the recommendations of the American Council on Education in reference to the *Guide to the Evaluation of Educational Experiences in the Armed Services* and the *National Guide to College Credit for Workforce Training*; The College Board in reference to its recommendation of Advanced Placement Examinations, and credit recommendations from other similar nationally recognized academic institutions, including Mt. San Antonio College's policy for comprehensive examinations.

Policy Regulations

- Of the 60 units required for the Associate Degree, at least twentyfour (24) units must be earned in courses that contribute to the grade point average.
- Extra-institutional learning credit will normally not be evaluated unless the credit is necessary for graduation.
- Credit for non-collegiate courses will be awarded only for work applicable toward the Associate Degree. Credit may be granted for upper division courses provided the student has earned less than 60 units at the time the upper division work is attempted.
- To petition for extra-institutional learning credit, a student must have at least a 2.0 grade point average, not be on probation, and be in good standing.
- The permanent academic record shall be annotated in such a manner to insure that a true and complete history of extra-institutional learning credit has been granted.
- In cases where a student is seeking a degree/certificate from the College, all standard graduation and residency requirements apply and must be met by completing a minimum of 12 units earned from Mt. SAC courses.

Credit for Current License Holders

Mt. San Antonio College may grant units of credit toward an associate's degree to current license holders in the following areas: Emergency Medical Technology (Paramedics), Psychiatric Technology, and Radiologic Technology. The total number of units granted will be equal to the current total unit requirement for the equivalent program certificate. License holders must meet the college's residency requirements and

complete an application to the college before the request for extrainstitutional learning credit may be made. The application date will determine the catalog year.

The Department Chair from the appropriate program will validate the license and its currency. Admissions and Records will certify that the requirements have been met, grant the appropriate number of units, and apply extra-institutional learning credit toward the degree. (AP 4285)

Credit for Military Training

Mt. San Antonio College will grant four units of Baccalaureate level elective credits for military experience without regard to the field of service. Additional credit may be allowed for specific programs of training and credits earned through the United States Armed Forces Institute. (AP 4285)

Advanced Placement Credit for Mt. SAC General Education Requirements for the Associate Degree

Students who have a qualifying Advanced Placement (AP) test score (3 or above) may petition to utilize the results of their AP examinations to meet Mt SAC general education requirements in the areas identified in the Credit by Examination tab above.

Advanced Placement Examinations

| / availocu i | luocificite | | | | |
|--|--|-------------------|----------|--------------------------------|-----------------|
| AP Examination | Score Needed/ GE/ Equivalency | Mt.SAC GE Area | GE Units | Equivalent Mt.SAC Course | Degree Units |
| Art History | 3 | C1 or C2 | 3 | AHIS 4 & AHIS 5 | 6 |
| Biology | 3 | B2 | 3 | BIOL 1 | 6 |
| Calculus AB ¹ | 3/4 ¹ | Math Competenc | N/A y | MATH 180 | 3 |
| Calculus BC | 3/3/4 | Math Competenc | N/A) | MATH 180 or MATH 181 | 6 |
| Chemistry | 3 | B1 | 3 | None | 6 |
| Chinese Language and Culture | 3 | C2 | 3 | CHIN 1 & CHIN 2 | 6 |
| Computer Science A | 3 | N/A | N/A | CSCI 145 | 3 |
| Computer Science AB | 3 | N/A | N/A | None | 6 |
| English Language and Compositio | 3 n | A2 | 3 | ENGL 1A | 6 |
| English Literature and Compositio | 3 | A2 & C2 | 6 | ENGL 1A & ENGL 1B | 6 |
| Environmen Science | 1Gal | B1 | 3 | None | 4 |
| European History | 3 | C2 or D2 | 3 | None | 6 |
| French Language and Culture | 3 | C2 | 3 | FRCH 1 & FRCH 2 | 6 |

| French Literature | 3 | C2 | 3 | FRCH 3 | 6 |
|---|----------|--|----------|--------------------|---|
| German Language and Culture | 3 | C2 | 3 | GERM 1 & GERM 2 | 6 |
| Government and Politics: Comparative | | D2 | 3 | None | 3 |
| Government and Politics: US | t3 | D1 | 3 | None | 3 |
| Human Geography | 3 | D2 | 3 | GEOG 2 | 3 |
| Italian Language and Culture | 3 | C2 | 3 | ITAL 1 & ITAL 2 | 6 |
| Japanese Language and Culture | 3 | C2 | 3 | JAPN 1 & JAPN 2 | 6 |
| Latin: Literature | 3 | C2 | 3 | None | 6 |
| Latin: Vergil | 3 | C2 | 3 | None | 3 |
| Macroecono | oBn∕i4cs | D2 | 3 | BUSC 1A | 3 |
| Microecono | 3/4 | D2 | 3 | BUSC 1B | 3 |
| Music Theory | 3 | C1 | 3 | MUS 7 | 6 |
| Physics B | 3 | B1 | 3 | None | 6 |
| Physics C: Electricity and Magnetism | 3 | B1 | 3 | None | 4 |
| Physics C: Mechanics | 3 | B1 | 3 | None | 4 |
| Psychology | 3 | D2 | 3 | PSYC 1A | 3 |
| Spanish Language | 3 | C2 | 3 | SPAN 1 & SPAN 2 | 6 |
| Spanish Literature | 3 | C2 | 3 | SPAN 3 | 6 |
| Statistics | 3 | Math Competenc | N/A } | MATH 110 | 3 |
| Studio Art - 2D | 3 | General education and course equivalency credit based on portfolio review | | | 3 |
| Studio Art - 3D | 3 | General education and course equivalency credit based on portfolio review | , | | 3 |
| | | | | | |

| Studio Art - Drawing | - 3 | General education and course equivalenc credit based on portfolio review | | | 3 |
|-----------------------------|-----|---|---|--------|---|
| United States History | 3 | C2 or D1 | 3 | HIST 1 | 6 |
| World History | 3 | C2 or D2 | 3 | None | 6 |

¹ A score of 3 on the Calculus AB Advanced Placement Exam will earn a student three (3) degree applicable units, Math Competency and Eligibility for MATH 180.

Credit by Examination

The general philosophy of Mt. San Antonio College is that the interaction which takes place between the student and professor is of critical importance to the learning process. However, quality instruction places a premium on meeting individual student needs. Therefore, Mt. San Antonio College provides for Credit by Examination enabling the student to accelerate his/her educational program by providing opportunity to obtain credit in those fields in which he/she has already achieved proficiency independently or by informal means. (BP 4235, AP 4235)

| Course Prefix | Course Name | Units |
|--------------------------|--|-------|
| Arts Division | | |
| Commercial & Ent | ertainment Arts | |
| ARTC 100 | Graphic Design I | |
| ARTC 200 | Web Design | |
| PHOT 10 | Basic Digital and Film Photography | |
| PHOT 20 | Color Photography | |
| Fine Arts | | |
| ANIM 108 | Principles of Animation | |
| Music | | |
| MUS 2 | Music Theory | |
| MUS 5A | Musicianship - Ear Training and Sight Singing | |
| MUS 7 | Fundamentals of Music | |
| MUS 17A | Elementary Piano | |
| MUS 17B | Intermediate Piano | |
| Business Division | | |
| Accounting and M | lanagement | |
| BUSA 11 | Fundamentals of Accounting | |
| BUSA 68 | Business Mathematics | |
| BUSA 71 | Personal Financial Planning | |
| BUSA 72 | Bookkeeping - Accounting | |
| BUSM 20 | Principles of Business | |
| BUSM 60 | Human Relations in Business | |
| BUSM 61 | Business Organization and Management | |
| BUSM 66 | Small Business Management | |
| Business Administration | | |
| BUSR 50 | Real Estate Principles | |
| Child Developmen | it | |

| CHLD 5 | Principles and Practices in Child | | | |
|-----------------------|--|--|--|--|
| CHLD 61 | Development Programs Language Arts and Art Media for Young | | | |
| | Children | | | |
| CHLD 64 | Health, Safety and Nutrition of Children | | | |
| Computer Inform | nation Systems | | | |
| CISB 11 | Computer Information Systems | | | |
| CISB 15 | Microcomputer Applications | | | |
| CISB 31 | Microsoft Word | | | |
| CISW 15 | Web Site Development | | | |
| Consumer Scien | ce & Design Technologies | | | |
| FASH 10 | Clothing Construction I | | | |
| FCS 41 | Life Management | | | |
| FCS 80 | Personal Financial Planning | | | |
| NF 10 | Nutrition for Health and Wellness | | | |
| HRM 51 | Introduction to Hospitality | | | |
| HRM 52 | Food Safety and Sanitation | | | |
| HRM 53 | Dining Room Service Management | | | |
| HRM 54 | Basic Cooking Techniques | | | |
| HRM 56 | Hospitality Supervision | | | |
| HRM 57 | Hospitality Cost Control | | | |
| HRM 61 | Menu Planning | | | |
| HRM 62 | Event Planning and Catering | | | |
| HRM 64 | Hospitality Financial Accounting | | | |
| HRM 66 | Hospitality Law | | | |
| HRM 70 | Introduction to Lodging | | | |
| HRM 81 | Garde Manger | | | |
| HRM 82 | Baking and Pastry | | | |
| HRM 83 | International Cuisines | | | |
| HRM 91 | Hospitality Work Experience | | | |
| Office Technolog | у | | | |
| BUSO 5 | Business English | | | |
| BUSO 96A | | | | |
| Continuing Educ | ation | | | |
| Adult Basic Educ | cation | | | |
| BSHS ALG1 | High School Algebra 1 | | | |
| BSHS BIO | High School Biology | | | |
| BSHS USH | High School U.S. History | | | |
| BSHS WHS | High School World History | | | |
| Humanities & So | cial Sciences Division | | | |
| Sign Language/I | nterpreting | | | |
| SIGN 101 | American Sign Language 1 | | | |
| SIGN 102 | American Sign Language 2 | | | |
| SIGN 103 | American Sign Language 3 | | | |
| SIGN 104 | American Sign Language 4 | | | |
| SIGN 105 | American Sign Language 5 | | | |
| Physical Educati | | | | |
| | on & Wellness Programs | | | |
| KIN 19 | Introduction to Care/Prevention of Activity/ Sports -Related Injuries | | | |
| Natural Sciences | s Division | | | |
| Agricultural Sciences | | | | |
| AGAN 1 | Animal Science | | | |
| | | | | |

| AGLI 16 | Horse Production and Management |
|--------------------------------|--|
| AGOR 1 | Horticultural Science |
| AGOR 13 | Landscape Design |
| AGOR 71 | Construction Fundamentals |
| Biological Scien | ces |
| BIOL 1 | General Biology |
| Technology and | |
| Aeronautics, Tra | nsportation |
| AERO 100 | Primary Pilot Ground School |
| AERO 102 | Aviation Weather |
| AERO 104 | Federal Aviation Regulations |
| AERO 150 | Commercial Pilot Ground School |
| AERO 152 | Air Transportation |
| AERO 252 | Instrument Ground School |
| Air Conditioning | , Welding, and Water Technology |
| AIRC 10 | Technical Mathematics in Air Conditioning and Refrigeration |
| AIRC 11 | Welding for Air Conditioning and Refrigeration |
| AIRC 20 | Refrigeration Fundamentals |
| AIRC 25 | Electrical Fundamentals for Air |
| | Conditioning and Refrigeration |
| WELD 40 | Introduction to Welding |
| WELD 50 | Oxyacetylene Welding |
| WELD 51 | Basic Electric Arc Welding |
| WELD 53A | Welding Metallurgy |
| WELD 70A | Beginning Arc Welding |
| WELD 70B | Intermediate Arc Welding |
| WELD 70C | Certification for Welders |
| Aircraft Mainten Technology | ance Technician and Manufacturing |
| MFG 15 | |
| MFG 150 | Manual Machining I |
| MFG 180 | Introduction to MasterCAM |
| Architecture & E | ngineering Design Technology |
| ARCH 101 | Design I - Elements of Design |
| ARCH 121 | CADD and Digital Design Media Level I |
| ARCH 141 | Design Drawing and Communication |
| ARCH 146 | Architectural Drawings and Fabrications |
| ARCH 147 | Architectural CAD and BIM |
| ECT 17 | Legal Aspects of Construction |
| ECT 67 | Reading Construction Drawings |
| ECT 70 | Elements of Construction Management |
| ECT 71 | Construction Estimating |
| Electronics & Co | mputer Technology |
| CNET 50 | PC Servicing |
| CNET 52 | PC Operating Systems |
| CNET 54 | PC Troubleshooting |
| CNET 60 | A+ Certification Preparation |
| CNET 62 | Network+ Certification Preparation |
| CNET 66 | Security+ Certification Preparation |
| ELEC 11 | Technical Applications in Microcomputers |
| | |

| | ELEC 50A & ELEC 50B | Electronic Circuits - Direct Current (DC) and Electronic Circuits (AC) |
|----|------------------------|---|
| | ELEC 50B | Electronic Circuits (AC) |
| | ELEC 51 | Semiconductor Devices and Circuits |
| | ELEC 53 | Communications Systems |
| | ELEC 55 | Microwave Communications |
| | ELEC 56 | Digital Electronics |
| | ELEC 61 | Electronic Assembly and Fabrication |
| | ELEC 76 | FCC General Radiotelephone Operator |
| | | License Preparation |
| | EST 50 | Electrical Fundamentals for Cable Installations |
| | EST 52 | Fabrication Techniques for Cable Installations |
| | EST 54 | Cabling and Wiring Standards |
| | EST 56 | Home Theater, Home Integration, & Home Security Systems |
| | EST 62 | Electronic Troubleshooting- I |
| | EST 64 | Electronic Troubleshooting - II |
| Fi | re Technology | |
| | FIRE 1 | Fire Protection Organization |
| | FIRE 2 | Fire Prevention Technology |
| | FIRE 3 | Fire Protection Equipment and Systems |
| | FIRE 4 | Building Construction for Fire Protection |
| | FIRE 5 | Fire Behavior and Combustion |
| | FIRE 6 | Hazardous Materials/ICS |
| | FIRE 7 | Fire Fighting Tactics and Strategy |
| | FIRE 8 | Fire Company Organization and Management |
| | FIRE 9 | Fire Hydraulics |
| | FIRE 10 | Arson and Fire Investigation |
| | FIRE 11 | Fire Apparatus and Equipment |
| In | dustrial Design | Engineering |
| | IDE 120 | Introduction to CAD |
| | IDE 130 | Shop Processes |
| | IDE 220 | Advanced CAD |
| | IDE 230 | Introduction to Mechanical Principles |
| Ρι | ublic Services | |
| | AD 1 | Alcohol/Drug Dependency |
| | ADJU 1 | The Administration of Justice System |
| | ADJU 2 | Principles and Procedures of the Justice System |
| | ADJU 3 | Concepts of Criminal Law |
| | ADJU 4 | Legal Aspects of Evidence |
| | ADJU 5 | Community Relations |
| | ADJU 6 | Concepts of Enforcement Services |
| | ADJU 13 | Concepts of Traffic Services |
| | ADJU 20 | Principles of Investigation |
| | ADJU 38 | Narcotics Investigation |
| | ADJU 59 | Gangs and Corrections |
| | ADJU 68 | Administration of Justice Report Writing |
| | ADJU 74 | Vice Control |
| He | ealth Sciences I | JIVISION |

| | Radiologic Technology | | | | |
|--|-----------------------|---|--|--|--|
| | RAD 50 | Introduction to Radiologic Science and Health Care | | | |
| | RAD 61A | Theory of Radiologic Technology | | | |
| | RAD 61B | Radiographic Procedures I | | | |
| | RAD 61C | Radiographic Procedures I Laboratory | | | |
| | RAD 91 | Patient Care in Radiologic Sciences | | | |
| | Respiratory Therapy | | | | |
| | RESD 50 | Theory and Principles of Respiratory Therapy | | | |
| | MEDI 90 | Medical Terminology | | | |
| | | | | | |

Pursuant to Section 55050 of Title 5 of the California Code of Regulations, students at Mt. San Antonio College may apply for Credit by Examination and such unit credit may be granted subject to the following rules and regulations:

Rules and Regulations

- 1. Credit by Examination will be granted only for those courses which have been so designated by the departments.
- Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."
- A student may petition for Credit by Examination provided:
 a. The student has been registered at Mt. San Antonio College.
 - b. The student has not already received credit nor is currently enrolled beyond six weeks in the same course or in a more advanced course (except for Advanced Placement Course Credit).
 - c. The student has at least a 2.0 grade point average. This includes transfer/new students.
- 4. The student may obtain the petition for Credit by Examination from the Division Office.
- 5. The department will establish written guidelines by which the eligibility of a student to take such an examination is determined.
- 6. The Department will assign a grade depending on the results of the examination and submit the form "Petition for Credit by Examination" to Admissions and Records.
- 7. The student may not use Credit by Examination to satisfy the residency requirement for the degree.

A list of courses for Credit by Examination is available at each Division Office, the Instruction Office, and the Counseling Center.

International Baccalaureate Credit for Mt. SAC General Education Requirements for the Associate Degree

Students completing all or portions of the International Baccalaureate (IB) program at their high school may petition to utilize the results of their IB examinations to meet Mt SAC general education requirements in the areas identified in the table. Only IB Higher Level (HL) certificate examinations with scores of 5, 6 or 7 will be honored.

Students who have both a qualifying Advanced Placement (AP) test score (3 or above) and a qualifying IB certificate exam score (5 or above) in the same examination area, or who have completed a college level course for credit, will only have the first completion counted for credit.

| IB Higher Level Exam | Score Needed for Equivalency | Area | Units of GE | Equivalent Mt.SAC Course | Degree Units |
|--|------------------------------------|-------------------|-------------|--------------------------------|-----------------|
| IB Biology | 5 | B2 | 3 | BIOL 1 | 6 |
| IB Chemistry | 5 | B1 | 3 | None | 6 |
| IB Economics | 5 | D2 | 3 | BUSC 1A | 6 |
| IB Geography | 5 | D2 | 3 | GEOG 2 | 6 |
| IB History (any region) | 5 | C2 or D2 | 3 | None | 6 |
| IB Language A1 (English) | 5 | C2 | 3 | None | 6 |
| IB Language A2 | 5 | C2 | 3 | None | 6 |
| IB Language A2 (Classical Languages) | 5 | C2 | 3 | LATN 1 | 6 |
| IB Mathematic | 4/5 s | Math Competenc | N/A y | MATH 160/ MATH 180 | 6 |
| IB Physics | 5 | B1 | 3 | None | 6 |
| IB Psychology | 5 | D2 | 3 | PSYC 1A | 3 |
| IB Theatre Arts | 5 | C1 | 3 | THTR 9 | 6 |

STUDENT SERVICES AND STUDENT LIFE

Student Life

Student Life provides opportunities for participation in leadership programs, student government, student clubs, and other social, personal growth and development experiences.

Associated Students (A.S.) Student Government Building 9C, (909) 274-4525

Associated Students (http://as.mtsac.edu)

Associated Students serves as the representative voice for students on all College issues and provides students with an opportunity to develop leadership skills. There are seven A.S. executive officer positions and sixteen A.S. Senate positions available to students interested in becoming involved in making a positive difference on campus. The Senate allocates monies to support various College programs, events, and services. There are also opportunities for students to serve on College-wide committees to influence College policies and decision making. The SacBookRac sells A.S. discounted amusement park and movie tickets. Associated Students meetings are held every Tuesday in the Student Center, Building 9C, Room 5, from 3:00 p.m. - 5:00 p.m.

A.S. Student Activities Fee

The Student Activities Fee is an \$11 fee collected every Fall and Spring Semester to provide numerous programs and services on campus including book grants, scholarships, cultural programs, speakers, social activities, and discounted amusement park and movie tickets. This fee is optional. Waiving this fee will exclude the student from taking advantage of these benefits. Students can waive this fee by visiting the Bursar's Office. Refunds will only be issued during the first two weeks of the semester.

Student Representation Fee

The Student Representation Fee is a mandatory fee that is collected during fall and spring registration for the purpose of providing Mt. SAC students the means to state their positions and viewpoints before city, county, district, and state government agencies. A student may choose not to pay the Student Representation Fee for political, religious, financial, or moral reasons. If a student chooses to opt-out of paying the fee for the stated reasons, then the student must:

- 1. visit the Student Life Office in building 9C or Associated Students (http://mtsac.edu/as) to get the opt-out form
- 2. complete the form and
- 3. return it to the Bursar's Office prior to paying the college fees.

Student Clubs and Organizations Building 9C, (909) 274-4525

Clubs (http://www.mtsac.edu/clubs)

More than 60 student clubs and organizations provide opportunities to make friends, enhance learning, build leadership skills and have fun. The Inter-Club Council (ICC) is comprised of one representative from each student club and meets regularly to discuss club activities and formulate procedures to better serve the campus community. Join-A-Club is a three-day event at the beginning of each semester for students to learn more about co-curricular campus involvement opportunities. A current listing

of student clubs and organizations is available online (Clubs (http://www.mtsac.edu/clubs)).

Student Life Office/Student Center Building 9C, (909) 274-4525

Student Life (http://www.mtsac.edu/studentlife)

The Student Life Office is responsible for student involvement and leadership programs and serves as the hub for student activities at Mt. SAC. Information regarding the LEAD (Leadership Education and Development) Program, student leadership conferences, volunteer opportunities and other involvement opportunities are available in the Student Life Office. This office also handles lost and found items, approves and enforces all on-campus postings, and assists in contacting students in emergency situations. The Associated Students (AS) offices are located here.

Students who are involved in co-curricular activities are encouraged to complete the Activities Transcript (http://mtsac.edu/studentlife/ activitiestranscript.html), which complements their academic transcript and verifies the student's involvement in service and leadership activities outside of the classroom.

The Director of Student Life serves to counsel and discipline students based upon the College's Student Discipline Policy. Students are assisted in understanding their due process rights and grievance procedures. The office responds to disciplinary issues and advises faculty and staff on issues related to discipline. Students who have complaints regarding their final grades or their experiences on campus can receive assistance in the Student Life Office.

Student Life Center Building 9C, (909) 274- 5959

Student Life Center (http://www.mtsac.edu/studentlife/ studentlifecenter.html)

The Student Life Center provides a relaxing area to lounge, watch TV, and play foosball, ping pong, a variety of board games, or video games. Students also have access to free wireless Internet. The Student Life Center creates an environment for students to socialize and connect with other students as well as serves as a meeting place for events, activities, clubs and student government. The Student Life Center is also the place to find information about off-campus housing. The Associated Students (AS) offices are located here.

Student Services

Your success; our passion. Student Services at Mt. San Antonio College are designed to meet the unique and varied needs of all students. There are both general and specific services and support programs available for students ranging from admissions and financial aid to counseling, transfer, career services and student health; from learning communities like Bridge to specialized support services like EOPS/CARE, CalWORKs, DSPS, TRiO programs, Veterans Resource Center, Dream Center, and REACH Foster Youth. A wide range of student activities are also available for students: Associated Students government, over 50 student clubs and organizations, and student leadership development activities. Students are encouraged to participate in campus life by engaging in support services and becoming involved in campus activities.

~Dr. Audrey Yamagata-Noji, Vice President, Student Services

ACES Program Building 9E, (909) 274-4411

ACES (http://www.mtsac.edu/aces)

The ACES program helps low-income students, foster youth, students with disabilities, and students who are the first in their family to attend college to be successful at Mt. SAC. ACES offers: one on one counseling, tutoring, cultural enrichment activities, and campus tours.

Admissions and Records

Building 9B, (909) 274-4415

Admissions (http://www.mtsac.edu/admissions)

Admissions and Records is usually the first office prospective students visit and the last office students visit before transferring or graduating. Some of the services provided:

- Admission: All students must submit an application for admission in order to attend Mt. San Antonio College. The admission application generates a Permit to Register and establishes a historical student record for each student. Transcripts from other colleges must be submitted for prerequisite eligibility checks.
- Course Registration: All registration is conducted online via the web at MyPortal (https://lpp5auth.mtsac.edu/cas/login?service=https %3A%2F%2Fmy.mtsac.edu%2Fc%2Fportal%2Flogin). Registration instructions can be found in the current Schedule of Classes or online at MyPortal (https://lpp5auth.mtsac.edu/cas/login?service=https %3A%2F%2Fmy.mtsac.edu%2Fc%2Fportal%2Flogin).
- 3. Admissions and Records is the official custodian of student records. This office maintains student demographic information such as name, address and Mt. SAC student identification number, student academic history, issues I-20's for International Students, processes Petitions for Exceptional Action, transcript and enrollment verification requests, graduation and certificate petitions and distributes diplomas and certificates.
- 4. Admissions and Records provides computers for student use located in the Student Services Building. These computers provide access to the student portal for students to print unofficial transcripts, final grades, and copies of the Permit to Register. All services are also available at MyPortal (https://lpp5auth.mtsac.edu/cas/login? service=https%3A%2F%2Fmy.mtsac.edu%2Fc%2Fportal%2Flogin). To use this service, students must have their Mt. SAC Student username.

ARISE Program

Building 16B, (909) 274-6622 ARISE (http://www.mtsac.edu/arise)

Arise Program, a federal grant program, provides support for Asian American and Pacific Islander (AAPI) and other students. The goal of the program is to assist Asian American and Pacific Islander students to successfully attain their educational goals and recognize their valuable contributions to the campus community as AAPI students and student leaders. Program activities include: tutoring, educational advisement and counseling services, workshops, student leadership training, and basic skills development.

Aspire Program

Building 9F, (909) 274-6396 Aspire (http://www.mtsac.edu/aspire)

Aspire is a dynamic program designed to provide essential educational support and services to increase the academic success, retention, degree completion, and transfer rates of African American and other students

enrolled at Mt. San Antonio College. We accomplish this through monthly workshops, mentoring, and learning communities.

Assessment Center

Building 9B, (909) 274-4265

Assessment Center (http://www.mtsac.edu/assessment)

The Assessment Center provides placement testing and other assessment services to assure that all students are placed appropriately in Mt. SAC courses. The Center offers Test Information Sessions geared to making students aware of test format and the overall assessment process. English and math test preparation workshops are also offered to students at the Writing Center for the English placement test (AWE) and at the Student Services Math Lab for the math test. Students can schedule appointments for math, English, reading and chemistry placement tests, as well as for test information and preparation workshops via their portal, by phone, or by visiting the Assessment Center.

Bridge Program

Building 9E, (909) 274-5392

Bridge (http://www.mtsac.edu/bridge)

The Bridge Program offers several learning communities designed to increase your academic and personal success. Students in the learning communities are enrolled in "linked" or "clustered" classes. Various learning communities are offered, including: Summer Bridge, Math Bridge, and English Bridge. The Bridge Program is perfect for students who are the first in their family to attend college, want to improve academic and social skills, want to learn more about career and transfer options, or need additional support during their first year at Mt. SAC.

Bursar's Office

Building 4, Lower Level, (909) 274-4960 Bursar's Office (http://www.mtsac.edu/bursars)

The Bursar's Office is responsible for the collection of credit registration fees and other campus fees including parking permits, replacements, parking citation fees, enrollment verification and production cards. Student fees may be paid via the web at MyPortal (https://lpp5auth.mtsac.edu/cas/login?service=https%3A%2F%2Fmy.mtsac.edu%2Fc%2Fportal%2Flogin) or in person at the Bursar's Office.

CalWORKs

Building 9B, (909) 274-4755 CalWORKS (http://www.mtsac.edu/calworks)

The CalWORKs program provides educational/ training assistance to students who receive cash aid through Temporary Assistance to Needy Families (TANF), including self initiated participants (SIPs) and GAIN referrals. CalWORKs offers: one on one counseling, GAIN assistance, work study jobs, tutoring, and a book lending library.

CARE (Cooperative Agencies Resources for Education)

Building 9B, (909) 274-4500

CARE (http://www.mtsac.edu/eops/care)

Cooperative Agencies Resources for Education (CARE), is a state funded program designed to recruit and assist single parents who are heads of household with children 13 years old and under and who are CalWORKs recipients attending community college. CARE students receive additional support through counseling, tutoring, assistance with books and supplies, grants, and other services designed to help them complete their educational goals. CARE is provided through EOPS; students interested must also qualify for EOPS.

Career and Transfer Services

Building 9B, (909) 274-4510

Career and Transfer Services helps students get from Mt. SAC to the next step in their educational journey whether that is a career or transfer to a four-year university. Career and Transfer Services provides a variety of activities, events and resources to help students transfer to universities, solidify career goals, sharpen job acquisition skills, and acquire part- and full-time employment.

Career Services include:

- · Job and internship referrals
- Career fairs
- · Career acquisition skills workshops
- Mock interview sessions
- 1-on-1 assistance with resume preparation, interviewing techniques, and general job search

While Mt. SAC graduates may return to Career and Transfer Services for employment assistance, current students are strongly encouraged to visit Career and Transfer Services while still attending. For more information, please go to career services. (http://www.mtsac.edu/careerservices)

Transfer Services include:

- · Library of career and college guidebooks and university catalogs
- · Workshops on transfer topics
- · University representative visits and appointments
- College fairs
- University tours
- Walk-in transfer advising
- Computers for career and transfer research, applications and more!

For more information, please go to transfer services (http:// transfer.mtsac.edu).

Child Care Services

Building 70, (909) 274-4960

Child Care Services (http://www.mtsac.edu/cdc)

The Mt. SAC Child Development Center offers childcare to students while attending class. We provide high quality full and part day early childhood education services to your children. Our nationally accredited program serves children aged three months through five years. After school care for kindergarteners is available as well. Parents and children must meet eligibility requirements, and children must attend for a minimum of 3 hours per day, at least twice a week. For requirement specifications, and pricing information, contact the center directly.

Counseling Services

Building 9B, (909) 274-4380

Counseling (http://www.mtsac.edu/counseling)

Not sure how to chart your path to your academic and career goals? Need help in creating your educational plan? Do you just need someone to talk to? The Mt. SAC Counseling Department is here to help! We deliver essential academic and career counseling services to our diverse student population. If you are experiencing personal issues that are affecting your academic performance, we can listen and direct you to the appropriate resources as needed. We also conduct new student orientations, probation workshops, and participate in community and high school outreach. We are involved in numerous programs that are designed to ensure your success: Bridge Program, Teacher Preparation, International Students, Student Athletes, and Career Institutes. We are here to help you succeed!

Disabled Student Programs & Services (DSPS) Building 9B, (909) 274-4290

Disabled Student Programs & Services (http://www.mtsac.edu/dsps)

Disabled Student Programs & Services provides services above and beyond services that may be available elsewhere on campus. The services may be in classroom (e.g. a note taker) and/or outside of the classroom (e.g. tram service). Services may be directly related to an approved educational accommodation (e.g. note taker, tram service, sign language interpreting, etc.). Others may be a specialized version of a traditional student service. (e.g. counseling, advising, community liaison with outside agencies).

DREAM Program

Building 16C, (909) 274-5596 DREAM (http://www.mtsac.edu/dream)

The Dream Program provides services/resources to DREAMers (Undocumented Students) at Mt. SAC to ensure the Students' success, personal growth and development. The Program strives to do so, by providing services, such as counseling (Academic, Career, and Personal), Peer Mentoring, CA Dream Act/ Financial Aid Information/Resources, Scholarship resources (TheDream.US), Legal Referrals for DACA, and Health Referrals for Health Services.

Extended Opportunity Programs & Services (EOPS)

Building 9B, (909) 274-4500

Extended Opportunity Programs & Services (http://www.mtsac.edu/eops)

Extended Opportunity Programs and Services (EOPS) provides educational and financial support services to eligible students who have historically experienced economic and educational disadvantages. Our program goes "over and above" other college services by offering priority registration, counseling, tutoring, financial assistance, and other support services designed to help students meet their personal and educational goals.

Financial Aid & Scholarships Building 9B, (909) 274-4450

Financial Aid & Scholarships (http://www.mtsac.edu/financialaid)

The Financial Aid Office provides information and assists students in applying for financial assistance in the form of grants, loans, scholarships, enrollment fee waivers, and work study opportunities. The Financial Aid office helps students apply for the Free Application for Federal Student Aid (FAFSA), as well as for the California DREAM Act, and the Board of Governor's Fee Waiver. Moreover, the scholarships counter provides students with Information about scholarships available within Mt. SAC, as well as external scholarship opportunities available throughout.

High School Outreach

Building 9B, (909) 274-5906

High School Outreach (http://www.mtsac.edu/hso)

High School Outreach provides programs and services designed to help students successfully transition into Mt. SAC. In addition to working with our local in district high schools, High School Outreach provides general campus tours, Mt. SAC Information workshops, registration assistance, and the Information Counter.

Honors Program

Building 26A-1680, (909) 274-4665 Honors (http://www.mtsac.edu/honors)

Honors (http://www.httsac.edu/honors/

The Honors Program offers honors sections of transferable general education courses. These courses provide an enriched curriculum, seminar type classes, close interaction with honors program faculty, and special projects and activities. Honors courses strengthen students' college transcripts and increase their chances for transfer to four year institutions.

International Student Center

Building 9B, (909) 274-5032

International Student Center (http://www.mtsac.edu/international/ student-center.html)

The International Student Center, located on the upper level of the Student Services Center (9B), is a place where F-1 students can connect with one another and the international community. Students will find comfortable spaces to network with friends, computer stations available for their academic needs as well as referrals to student services and resources. Students with questions related to the College or a personal need will find friendly staff available to assist.

Public Safety Escort Service

Building 23, (909) 274-4233

Public Safety (http://www.mtsac.edu/safety)

Mt. San Antonio College offers a Security Escort Service from 6:30 p.m. to 10:15 p.m., Monday - Thursday. Trained personnel will escort students safely to their car. Escorts are stationed at various locations on campus and can be identified by their yellow jackets and I.D. badges. Please refer to the map below to identify Escort locations. Students may also request a Security Escort by calling (909) 274-4555.

Escort Location Map

Campus escort locations are indicated on the map below with a white X.

REACH Program

Building 9F, (909) 274-6556 REACH (http://www.mtsac.edu/reach)

REACH is an educational program designed to assist current and former Foster youth. REACH provides assistance and support to our Foster Youth students in their transition into college, while attending Mt. SAC and as they transfer to a University. We are committed to partnering with Foster Youth students, and walk with them side by side in pursuing their educational endeavors. Some REACH services offered are mentoring and support, housing resources information, priority registration, workshops and field trips, Chafee grant, textbook loans, and much more!

SacBookRac

Building 9A, (909) 274-4475

SacBookRac (http://bookstore.mtsac.edu/home.aspx)

The SacBookRac is the campus book store where you may buy or rent textbooks, purchase supplies and services to meet your academic needs. The Bookstore is also a place to get college related supplies and

services uniquely tailored to Mt. SAC student needs. In addition, this is the location where you can get you Mt. SAC student ID.

Student Health Services

Building 67B and 9E, Room 2300 (909) 274-4400 Health Center (http://www.mtsac.edu/healthcenter)

The Student Health Center helps keep students physically and emotionally healthy so they can perform at their best. Professionals available include physicians, nurse practitioners, chiropractors, counselors, nurses, health education, and clerical support staff. The licensed professionals evaluate and treat minor, temporary physical and emotional conditions that require short term.

Veterans Resource Center (VRC)

Building 9E, (909) 274-4520

Veterans (http://www.mtsac.edu/veterans)

The VRC project established an innovative, collaborative effort to ease the transition for our student Veterans as they navigate our community college system. Today Mt. SAC continues to demonstrate both its motivation to meet the needs of Student Veterans and an ability to marshal resources to meet those needs through the VRC. Amongst its services, the VRC offers a lounge, computer lab, scholarship assistance, educational/career counseling, and one on one assistance with: FAFSA, VA Educational Benefits, portal navigation.

Financial Aid

Student Services Center, (909) 274-4450

Financial Aid website (http://www.mtsac.edu/financialaid)

Financial aid is available for students to assist with the costs associated with attending college. Although the primary responsibility for meeting college costs rests with the student and his or her family, it is recognized that many families have limited resources and are unable to meet the cost of a college education. Most financial aid programs were established to provide assistance for students with documented financial need.

The College provides financial assistance in the form of grants, loans, scholarships, and part-time employment for students who meet financial aid program eligibility requirements. Student financial aid awards are contingent upon continued funding from Federal and State government agencies. Students eligible for financial aid typically receive a "package" of aid from one or more financial aid programs offered.

The Financial Aid Office, located on the upper level of the Student Services Center building, administers aid programs for eligible applicants. Eligibility criteria for financial aid programs are subject to frequent change. Students may apply for aid by filing a Free Application for Federal Student Aid (FAFSA) form. A FAFSA worksheet is available in the Financial Aid Office for students interested in filing online at www.fafsa.gov (http://www.fafsa.gov).

The information reported on the FAFSA may be verified by the Financial Aid Office using a parent's and/or student's federal income tax information. Other documents may also be requested such as a copy of the Social Security card, Alien Registration card (if applicable) or other types of documents needed to verify or resolve conflicting data.

Recipients of aid from Federal and State funded programs must be students enrolled in eligible programs of study for the purpose of obtaining a degree, an approved Title IV certificate, or transfer. In addition to financial need, other eligibility requirements for most Federal and State programs include:

- 1. Having a high school diploma or equivalent such as a GED.
- 2. Being a U.S. citizen or eligible non-citizen.
- 3. Maintaining satisfactory progress in accordance with the standards.
- 4. Not be in default on a federal loan or owe a grant overpayment.
- 5. Be registered with the selective service, if required.

To be considered for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA) each academic year. This application is available beginning in January for the following academic year. If a student is interested in a State of California Grant, the FAFSA and Cal Grant GPA verification form must be completed. The Cal Grant program deadline is March 2nd of each year. For students who miss this deadline, there is a second opportunity for community college students to apply for Cal Grants. The second deadline is September 2nd. Additional information and eligibility requirements are available at https://mygrantinfo.csac.ca.gov/logon.asp.

The FAFSA is the application for the following Federal and State programs:

- Board of Governors Fee Waiver (BOGW)
- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work-Study Program (FWS)
- · Need-based scholarships
- State Cal Grants
- Chafee Grant (for Foster youth)
- Federal William D. Ford Direct Loan Program

Students who receive federal financial aid and do not attend any classes will be required to repay all of the funds they have received. Students who withdraw from all classes prior to completing more than 60% of the semester are subject to return of Title IV funds requirements, will have financial aid eligibility recalculated based on the percentage of the semester completed, and will be required to repay any unearned financial aid received. At Mt. SAC a student's withdrawal date is determined as follows:

- 1. the date the student officially notified the Admissions and Records Office of his or her intent to withdraw, or
- 2. the midpoint of the semester for a student who leaves without notifying the college, or
- 3. the student's last date of attendance at a documented academicallyrelated activity, or
- 4. the date posted by the instructor indicating last day of attendance.

Board of Governor's Fee Waiver (BOG)

The California Community College Board of Governors Fee Waiver (BOGW) program is available to qualified California residents. Only the enrollment fee is waived, and the student is responsible for paying the additional fees assessed. There are three methods to qualify for a Board of Governors Fee Waiver. (1) Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI), or General Relief recipient, or (2) Household size/family income, or (3) Financial need as determined by filing the Free Application for Federal Student Aid (FAFSA). In addition to the three methods, there are special classifications that qualify for an enrollment fee waiver, which is subject to certification and/or documentation. Refer to the BOGW Fee Waiver application for a list of these classifications. To apply, go to http://www.cccapply.org/bog_waiver/

Whether you want to move into a career or move on to a four-year university, California community colleges want to help you achieve your educational goals. The Board of Governors (BOG) Fee Waiver is available for eligible students at California community colleges, and will waive your per unit enrollment fee at any community college throughout the state.

Once you've qualified for the BOG Fee Waiver, it's important to ensure that you're meeting the academic and progress standards in order to avoid losing the fee waiver.

· Academic - Sustain a GPA of 2.0 or higher

If your cumulative GPA falls below 2.0 for two consecutive primary terms (fall/spring semesters, or fall/winter/spring quarters), you may lose your fee waiver eligibility.

Progress - Complete more than 50% of your coursework

If the cumulative number of units you complete is not more than 50% in two consecutive primary terms (fall/spring semesters, or fall/winter/spring quarters), you may lose your fee waiver eligibility.

Combination of Academic and Progress Standards

Any combination of two consecutive terms of cumulative GPA below 2.0, and/or cumulative unit completion of not more than 50% may result in loss of fee waiver eligibility.

For further information regarding notification and appeal, please go to resources on the Mt. SAC Financial Aid web page (http://www.mtsac.edu/financialaid/resources/policies/ board_of_governors_fee_waiver_loss.html)

In addition, the college administers a variety of scholarship programs. Information about the College Scholarship Program can be obtained in the Financial Aid Office (Scholarships (http://www.mtsac.edu/ scholarships)).

LIBRARY AND LEARNING RESOURCES

Achieving in College, Ensuring Success (ACES) Program

Building 9E, (909) 274-4411

ACES Program (http://www.mtsac.edu/aces)

The ACES Program provides tutoring, among other services, to ACES students. Its services focus on a holistic approach to student development and success. ACES services help students gain knowledge and skills necessary to achieve their educational goals and ultimately obtain a Bachelor's degree

American Language (AMLA)

Building 66, Room 243, (909) 274-3432

AMLA Tutoring (http://www.mtsac.edu/amla)

AMLA Tutoring is for students in all American Language (credit ESL) classes. Tutors are certified teachers of English as a Second Language.

Distance Learning Program

Building 6, (909) 274-5659

Distance Learning Program (http://www.mtsac.edu/distancelearning)

Distance Learning means taking classes that are conducted partially or entirely off-campus "at a distance." Students and professors communicate with each other using a variety of technologies. Distance Learning (DL) courses have the same content and academic rigor as regular courses; the only difference is the delivery method. Students should expect to spend as much time, sometimes more depending on the subject matter, reading, writing, and studying for DL courses as they would in regular courses. In addition, students who manage their time well, log into DL courses regularly, submit completed work on time, and meet course expectations would do well in any course, but especially in DL courses. Communicating with the professor in a timely manner when there are questions or problems is also critical to student success.

Extended Opportunity Programs & Services (EOPS)

Building 9B, (909) 274-4500

Extended Opportunity Programs & Services (http://www.mtsac.edu/eops)

Extended Opportunity Programs and Services (EOPS) provides educational and financial support services to eligible students who have historically experienced economic and educational disadvantages. Our program goes "over and above" other college services by offering priority registration, counseling, tutoring, financial assistance, and other support services designed to help students meet their personal and educational goals.

Language Learning Center (LLC)

Building 6, Room 264 South Entrance, Upper Level, (909) 274-4580 Language Learning Center (http://www.mtsac.edu/llc)

The Language Learning Center (LLC) offers computer, web, and other media resources for students learning English as another language (ESL and AMLA) as well as those studying sign language (ASL) and foreign languages.

Learning Assistance Center

Building 6, South Entrance, Lower Level,

Learning Technology Center, (909) 274-4300 Learning Assistance Center (http://www.mtsac.edu/lac)

The Learning Assistance Center (LAC) helps students succeed in college. The LAC offers instruction to review pre-collegiate skills in math, reading, and writing. Courses in study techniques are also available. Tutorial Services in the Learning Assistance Center provides free tutoring to all Mt. San Antonio College students on a drop-in basis, in study groups, and by appointment. Tutors assist students with course work in most subject areas and with study skills. The Learning Lab computers and audio visual materials are available to all current registered Mt. SAC students. Students can use the Learning Lab for research, word processing, multimedia assignments, online course work, and to supplement classroom instruction.

Learning Assistance Center (LAC) Tutorial Services Building 6, Room 109, (909) 274-6605

LAC Tutorial Services (http://www.mtsac.edu/lac)

The LAC's Tutorial Services provides one-on-one and group tutoring in multiple subjects, including math, writing, languages, and science. Students can drop in or make an appointment to see a tutor. Tutorial Services also offers online tutoring in math and science courses.

Library

Building 6, North Entrance, Upper Level, Learning Technology Center, (909) 274-4260 Library (http://mtsac.edu/library)

The Library offers students, faculty, and staff a place to develop information and technology literacy, cultivate information inquiry skills, engage in quiet study, and meet to collaborate with fellow students. Students who visit the reference desk receive individualized instruction that will assist them develop their research topics, select topically relevant databases, construct effective searches, and find and evaluate their retrievals. Students that attend library workshops or enroll in a credit library course will further develop information literacy and research skills, improve their ability to evaluate and integrate a variety of materials into their papers and presentations, and learn effective search techniques.

The Library has a collection of over 90,000 print and media materials that include print books, eBooks, closed-captioned DVDs, and specialized materials such as audiobooks, adapted ESL titles, career titles, and popular titles. Students can reserve group study rooms online and can print from the library computers, their own devices, and from off campus.

Math Activities Resource Center (MARC)

Building 61 - Room 1318, (909) 274-5014 MARC Center (http://www.mtsac.edu/marc)

The MARC offers free tutoring to Mt. SAC students currently enrolled in MATH 50 through MATH 71. Resources for checkout include videos, calculators, textbooks and solutions manuals.

Science, Technology, Engineering, and Mathematics (STEM) Center Building 61 - Room 3318, (909) 274-4224

STEM Center (http://www.mtsac.edu/stem)

The STEM Center offers free support services to students enrolled in science, mathematics, and engineering courses. Services include peer coaching, tutoring, faculty office hours, and counseling. Seminars and workshops on strategies for success in STEM courses, life management skills for success in STEM courses, and preparation for transfer in STEM

majors are presented. The STEM Center serves as a hub for activity related to STEM courses and career.

Speech and Sign Success Center (SSSC)

Building 26B, Room 1551, (909) 274-6297

Speech and Sign Success Center (SSSC) (http://mtsac.edu/sssc)

Sign Language and Speech students can access specially designed digital video recording rooms that include flat screen monitors for self guided practice and skill development. For Sign students, the center has the video relay system (VRS) with special headsets for interpreters in training, as well as finger practice software. For Speech students, the center provides video libraries of speech examples and tools to create and manage visual aids. For both subject areas, individualized tutoring services are available. Drop-in sessions are welcomed, but appointments are highly encouraged.

Tech Ed Resource Center (TERC)

Building 18C, (909) 274-6118 or (909) 274-6121 TERC Center (http://www.mtsac.edu/tech-health/terc)

The Tech Ed Resource Center offers basic math, text book reading, writing, and research methods assistance to all CTE students. Students are encouraged to drop in and work with instructors and tutors or study independently. For additional information please contact TERC at (909) 274-6121 or (909) 274-6122.

Transfer Math Activities Resource Center (T-MARC)

Building 61 - Room 1314, (909) 274-5389 T-MARC Center (http://www.mtsac.edu/marc)

The T-MARC offers free math tutoring to Mt. SAC students currently enrolled in MATH 100 and above. A variety of resources for in-lab and take-home use are available.

The Writing Center

Building 26B - Room 1561A, (909) 274-5325 Writing Center (http://www.mtsac.edu/writingcenter)

The Writing Center offers free services to all students. The Center provides one-on-one tutoring in writing for any course at the College in both face-to-face and online formats. CRLA-certified tutors and at least one qualified English instructor are present at all times. Nonnative English speaking students can also make appointments with ESL-trained tutors. In addition, the Writing Center offers workshops to help with common writing issues, such as grammar, thesis statements, essay planning and organization as well as documentation and college research. Directed Learning Activities to hone writing and grammar skills are also offered. The Center's computer lab is open to students who use tutoring services to write and print papers, conduct research, and develop skills of grammar and rhetoric using self-directed software.

WIN Program

Building 45, Room 1430, (909) 274-4239 WIN Program (http://mtsac.edu/continuinged/noncredit/abe/win.html)

The WIN Program is a tutorial center and study hall where studentathletes have the opportunity to access tutoring in all subject areas either individually or in a group. The program is specifically designed to achieve success in their courses, prepare students to transfer to a four-year university, and assist them in maintaining academic eligibility.

Work Experience Education

Student Qualifications

Students participating in Work Experience Education must:

- 1. Have the approval of the assigned work experience professor.
- 2. Have an occupational or educational goal to which, in the opinion of the professor, the work experience chosen will contribute.
- 3. Pursue a planned program of work experience education based on written, measurable learning objectives which are directly related to the student's educational program and which, in the opinion of the professor, include new or expanded responsibilities or learning opportunities beyond those experienced during previous employment. Repetition of experiences in an ongoing job does not guarantee continued eligibility for the program.
- 4. Meet the following condition if self-employed: Identify a person who is approved by the professor to serve as a designated employer representative. This representative shall agree, in writing, to accept the following employer responsibilities:
 - a. Assist the student in identifying new or expanded on-the-job learning objectives.
 - b. Assist in the evaluation of the student's identified on-the-job learning objectives.
 - c. Validate hours worked.

Credits

For the satisfactory completion of work experience education, the College will grant credit to a student in an amount not to exceed four (4) units per semester, with a maximum total of sixteen (16) units during the student's enrollment at the College. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester of supervised work is required for each one unit of credit.

The student must be, as verified by the supervising professor, enrolled in an occupational program directly related to the work experience assignment.

The student enrolled in the work experience education program shall assume and comply with the following responsibilities:

- 1. Unless otherwise determined, develop measurable learning objectives approved by the professor and work site supervisor.
- 2. If under the age of 18, obtain the written permission of their parents.
- 3. Faithfully discharge the duties of the on-the-job assignment.
- 4. Notify the professor of any work site problems or change in status of duties.
- 5. Try at all times to represent themselves and the College positively while at the work site.
- 6. If, prior to enrolling in work experience education, the student is already employed full time by the work site where the work experience will take place, the student must write a report concerning a learning objective that extended beyond the duties of the regular job.

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CERTIFICATES & DEGREES DEFINED

What is a Degree?

Mt. San Antonio College offers both Associate in Science (A.S.) and Associate in Arts (A.A.) degrees. In general, the Associate in Science degrees are two-year occupational degrees that prepare students for a variety of career and technical fields. The Associate in Arts degrees, while not intended specifically for transfer, are two-year degrees in Liberal Arts and Sciences that provide for broad exploration of a specific area of emphasis. In many cases and with appropriate academic advising, students obtaining the Associate in Arts degree will find that they have a solid foundation for further postsecondary study should they wish to transfer at a later date. The Associate in Arts for Transfer and Associate in Science for Transfer degrees are designed to provide students with a seamless transition for transfer with junior standing somewhere in the CSU system.

Mt. San Antonio College currently offers 89 Associate and Transfer Degrees. These programs of study appeal to a diversity of interests reflecting industry needs and career trends to provide students with the skills and knowledge needed to earn a degree, transfer to a four-year college/university or prepare for employment.

- **Transfer degrees** are Associate in Arts for Transfer degrees and Associate in Science for Transfer degrees.
- Associate degrees are Associate in Science degrees and Associate in Arts degrees in Liberal Arts and Sciences with Emphases.

What is a Certificate?

Mt. San Antonio College offers two different types of certificates for credit programs of study:

- Skills Certificates are certificates of less than 18 units in various occupational areas. Although the awarding of Skills Certificates is not noted on a student's official transcript, the student may apply for and receive a documentation certificate from the college that may be of value in documenting knowledge and skills to potential employers. In many cases, entry-level Skills Certificates may be part of a laddertrack of increasing levels of preparation in an occupational area, and courses used to complete them may form a core of requirements that are augmented as students pursue higher levels of proficiency toward a Certificate of Achievement.
- Certificates of Achievement are certificates of at least 18 units and awarded for completion of an approved program of study meeting requirements of the California Community College Chancellor's Office in terms of total unit values and other criteria. The possession of such a certificate is favorably recognized by business and industry and is frequently a requirement for professional advancement. The awarding of all Certificates of Achievement is noted on a student's official transcript.

<u>Note:</u> The unit requirement for Skills Certificates is below the number required for some forms of financial aid eligibility. Students should consult with the Financial Aid Office to determine whether a particular program of study qualifies for financial aid.

Students who desire help in planning for a vocation or profession, or to prepare for transfer to a four-year institution, should seek the advice of a counselor.

Requirements for all certificates include the following:

- At least 1/2 of the credits earned toward the certificate must be completed at Mt. San Antonio College
- A grade of "C" or better must be earned in each course to be applied to the certificate

Mt. San Antonio College also awards Certificates of Competency and Occupational Training Certificates of Completion for certain non-credit programs of study. Information on these certificates may be found in the Adult and Continuing Education section of this catalog.

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- **Transfer degrees** are Associate in Arts for Transfer degrees and Associate in Science for Transfer degrees.
- Associate degrees are Associate in Science degrees and Associate in Arts degrees in Liberal Arts and Sciences with Emphases.

Requirements for an Associate Degree Application for Graduation

The Application for Graduation is the student's notification to Admissions and Records that he or she has completed all requirements and would like to receive a degree. The Application for Graduation form is available in the Admissions and Records office or online (Application for Graduation (http://www.mtsac.edu/records/documents/Application-for-Graduation-A-R-Grad-Petition-12-16-2014.pdf)). Students should meet with a Counselor to discuss their Education Plan prior to submitting the Application for Graduation.

All students intending to receive a degree must file an Application for Graduation with the Admissions and Records office and have on file all required documents and official transcripts. The deadline dates for submitting the Application for Graduation are as follows:

Fall: deadline to apply for fall graduation is the end of the ninth week.

Winter: deadline to apply for winter graduation is the end of the ninth week of the fall semester.

Spring: deadline to apply for spring graduation is the end of the ninth week.

Summer: deadline to apply for summer graduation is the end of the ninth week of the spring semester.

Students should check the Schedule of Classes in the Key Dates section for specific deadline dates for any given semester. Applications received after the deadline will be processed with the next graduation cycle. Students may apply for graduation one semester prior to completing all required coursework. Once the degree has been conferred, the degree will be posted to the student's academic record and will appear on the transcript. Students will also receive their diplomas in the mail thereafter. If a student is denied graduation, he or she will be informed in writing.

Multiple Degrees

The Associate in Science degree shall be awarded to those graduates who majored in one of the occupational programs at Mt. San Antonio College. Students may be awarded both an Associate in Science degree and an Associate in Arts degree with the 60 units required for an Associate degree if they have met the requirements for both within the 60 units of earned credit. Each additional degree requires 18 units of course work beyond the 60 units required for the first degree(s), and must include the satisfactory completion of all the required courses in the additional major. Students awarded additional degrees must meet or complete the current general education requirements in effect at the time of re-entry.

Residency Requirement

The Residency Requirement for Mt. San Antonio College can be met in either of two ways:

- 1. 12 units in residence and enrollment in the last semester, or
- 2. 45 units in residence if the last semester is not at Mt. SAC.

General Education Philosophy Statement

General education is the distinguishing feature of higher education. It is a broadly-based core of humanistic knowledge and abilities, the acquisition of which is the distinctive characteristic of the educated person. General education courses emphasize the ability to reason, to examine issues from different perspectives, to challenge authority, and to communicate ideas logically and confidently. They instill open-mindedness, respect for differences among people, and knowledge of self. By exposing students to different fields of study, general education courses provide an understanding of the human condition and of human accomplishments and encourage a lifelong interest in learning. Together with other Mt. San Antonio College degree requirements, the general education component of the associate degree prepares students to:

- transfer to and function successfully in a baccalaureate degreegranting institution;
- · enter the work force as a competent, productive citizen;
- · live a richer, more rewarding life.

General education courses are not primarily skills-based, nor are they limited to, or more appropriate for, majors in a specialized field of study. Courses that fulfill general education requirements must:

- 1. Require post-secondary level skills in reading, writing, quantitative reasoning, and critical thinking.
- 2. Improve students' abilities to:
 - · communicate oral and written ideas effectively;
 - · define problems, design solutions, critically analyze results;
 - use available media to access and retrieve reliable information for data gathering and research;
 - · work effectively, both cooperatively and independently;

- develop and question personal and societal values, make informed choices, and accept responsibility for their decisions;
- · function as active, responsible, ethical citizens;
- acquire the curiosity and skills essential for lifelong learning.
- 3. Impart understanding, knowledge, and appreciation of:
 - our shared scientific, technological, historical, and artistic heritage, including the contributions of women, ethnic minorities, and non-western cultures;
 - the earth's ecosystem, including the processes that formed it and the strategies that are necessary for its maintenance;
 - human social, political, and economic institutions and behavior, including their interrelationships;
 - the psychological, social, and physiological dimensions of men and women as individuals and as members of society.

Courses that fulfill general education requirements must fall into one of the content categories listed below:

- 1. Communication and Critical Thinking
- 2. Science and Math
- 3. Arts and Humanities
- 4. Social Sciences
- 5. Lifelong Understanding and Self-Development

Criteria for inclusion in each of the above categories are itemized below:

1. Communication and Critical Thinking

These courses emphasize both the content and form of communication. They teach students the relationship of language to logic, as well as how to analyze, criticize, and advocate ideas; to reason deductively and inductively; and to reach sound conclusions. Courses fulfilling this requirement:

- provide understanding of the psychological and social significance of communication;
- · illustrate how communication operates in various situations;
- focus on communication from the rhetorical perspective: reasoning, advocacy, organization, accuracy; the discovery, critical evaluation, and reporting of information; reading, listening, speaking, and writing effectively;
- provide active participation and practice in written and oral communication.

2. Science and Mathematics

These courses impart knowledge about living and non-living systems, and mathematical concepts and quantitative reasoning with applications. Courses fulfilling this requirement:

- promote understanding and appreciation of the methodologies and tools of science;
- emphasize the influence of scientific knowledge on the development of civilization;
- impart appreciation and understanding of basic concepts, not just skills;
- offer specific inquiry into mathematical concepts, quantitative reasoning and application. (See Mt. SAC degree competency requirements.)

3. Humanities

These courses cultivate intellect, imagination, sensibility and sensitivity. They encourage students to respond subjectively as well as objectively and to develop a sense of the integrity of emotional and intellectual responses. Courses fulfilling this requirement:

- · study great work of the human imagination;
- increase awareness and appreciation of the traditional humanistic disciplines such as art, dance, drama, literature, and music;
- impart an understanding of the interrelationship between creative art, the humanities, and the self;
- · provide exposure to both Western and non-Western cultures;
- may include a foreign language course that contains a cultural component as opposed to a course that focuses solely on skills acquisition.

4. Social Sciences

These courses explore, at the micro and macro-level, the social, political, and economic institutions that underpin society. Courses fulfilling these requirements:

- promote understanding and appreciation of social, political, and economic institutions;
- probe the relationship between these institutions and human behavior;
- examine these institutions in both their historical and contemporary context;
- include the role of, and impact on, non-white ethnic minorities and women;
- · include both Western and non-Western settings.
- 5. Lifelong Understanding and Self-Development

These courses facilitate an understanding of human beings as integrated physiological, social and psychological organisms. Courses fulfilling this requirement:

• provide selective consideration of human behavior, sexuality, nutrition, health, stress, implications of death and dying, and the relationship of people to the social and physical environment.

Institutional Level Outcomes (ILOs)

Institutional Level Outcomes (ILOs) are statements about the knowledge, skills, abilities, and attitudes that students are expected to develop as a result of their overall experiences with any aspect of the college, including courses, programs, departments, and services. All college personnel directly or indirectly impact the student experience including faculty, administrators, and staff. The College adopted four ILOs:

- **Communication:** Students effectively communicate with and respond to varied audiences in written, spoken or signed, and artistic forms.
- Critical Thinking: Students apply creative, computational, and analytical skills to identify and solve problems, analyze information, synthesize and evaluate ideas, and transform existing ideas into new forms.
- Information and Technology Literacy: Students will use resources and technologies to locate, evaluate, synthesize, and communicate information in various formats.
- Personal, Social, Civic, and Environmental Responsibility: Students demonstrate awareness and respect for personal, social, civic, and environmental responsibilities.

Program Level Outcomes (PLOs) and Student Learning Outcomes (SLOs) identify what students will know, think, or do as a result of completing programs and courses. Administrative Unit Objectives (AUOs) and Student Service Outcomes (SSOs) identify what students will know, think, or do as a result of interactions with operational and support services. General Education courses are assessed through the discipline-specific

SLOs and the comprehensive ILOs. Outcomes mapping demonstrates the connections among the different levels of outcomes.

Program and Course Student Learning Outcomes (SLOs)

Program and course student learning outcomes are statements that define the knowledge, skills, and perspectives acquired by students who satisfy program and course requirements. It is through the assessment of SLOs that the curriculum will be evaluated for improvements. SLOs will be assessed by faculty who teach courses and oversee programs. The SLOs can be found at SLO by Certificate/Degree/Discipline (http:// www.mtsac.edu/instruction/outcomes/sloinfo.html).

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

Adult & Continuing Education

Adult education courses are designed to support students towards a career or college pathway, as well as to provide developmental, educational, and lifelong learning opportunities. Courses and programs are defined categorically under the California Education Code, Section 84711, whereby state funding is authorized for specific categories. Categories currently provided by Mt. SAC noncredit include: Basic Skills (including tutoring), English as a Second Language (ESL and VESL), Citizenship, Education for Older Adults, Adults with Disabilities, Secondary Education, Short-term Vocational, and additional courses defined as adult education curricula.

A.A. and A.S. Degree Requirements

- Unit Requirement: Sixty (60) degree-appropriate units. A letter grade of "C" or better is required for each course required for graduation.
- General Education Requirements: At least 24 units are required which shall include courses in each of the General Education areas, A through E (see lists below). All courses must be completed with a grade of "C" or better.
- Physical Well-Being Requirement: Complete at least one of the physical education activity courses with the following prefixes: DNCE, KINA, KINF, KINI, KINL, KINS, KINX with a grade of "C" or better or "CR".
- **Reading Competency:** This requirement is met by attaining eligibility for READ 100. Eligibility for READ 100 can be acquired by completing one of the following with a grade of "C" or better.
 - 1. READ 90 Reading College Texts

AMLA 33R American Language Advanced Reading or

2. By obtaining eligibility for READ 100 on the Reading Placement Test.

- Math Competency: This requirement is met by completing one of the following with a grade of "C" or better.
- MATH 71 Intermediate Algebra

or

MATH 71B Intermediate Algebra - Second Half or

MATH 71X Practical Intermediate Algebra or

- Completing a more advanced college level mathematics course.
 or
- Obtaining a satisfactory score on the Intermediate Algebra Competency Examination.

- **GPA Requirement:** A Mt. San Antonio College "degree" total grade point average, and "all college" total grade point average of 2.0.
- Residency Requirement: The residency requirement for Mt. San Antonio College can be met in either of two ways:
- · 12 units in residence and enrollment in last semester, or
- · 45 units in residence if the last semester is not at Mt. SAC.

Additional Requirements for the Associate in Science Degree

 Students must complete all required courses in an approved occupational major with a minimum grade of "C" in all courses.

Additional Requirements for the Associate in Arts Degree

• Students must complete a pattern of 18 or more units from the courses identified within a specific area of emphasis with a minimum grade of "C" in all courses.

Note: All courses used for the A.A. degree majors may be double counted toward the Mt. San Antonio College General Education requirements.

General Education Requirements for 2017-18 Area A: Communication in the English Language

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| Choose one cour | se from the following | 3 |
| ENGL 1A | Freshman Composition | |
| ENGL 1AH | Freshman Composition - Honors | |
| Choose one cour | se from the following: | 3 |
| SPCH 1A | Public Speaking | |
| SPCH 1AH | Public Speaking - Honors | |
| SPCH 2 | Fundamentals of Communication | |
| SPCH 8 | Professional and Organizational Speaking | |
| SPCH 8H | Professional and Organizational Speaking - Honors | |

Area B: The Physical Universe and Life

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| Choose one cours | se from the Physical Sciences or Life | 3 |
| Sciences: | | |
| Physical Sciences | 8 | |
| ASTR 5 | Introduction to Astronomy | |
| ASTR 5H | Introduction to Astronomy - Honors | |
| ASTR 5L | Astronomical Observing Laboratory | |
| ASTR 7 | Geology of the Solar System | |
| ASTR 8 | Introduction to Stars, Galaxies, and the Universe | |
| CHEM 10 | Chemistry for Allied Health Majors | |
| CHEM 20 | Introductory Organic and Biochemistry | |
| CHEM 40 | Introduction to General Chemistry | |
| CHEM 50 | General Chemistry I | |
| CHEM 50H | General Chemistry I - Honors | |
| CHEM 51 | General Chemistry II | |
| CHEM 51H | General Chemistry II - Honors | |
| GEOG 1 | Physical Geography | |
| GEOG 1H | Physical Geography - Honors | |
| GEOG 1L | Physical Geography Laboratory | |
| GEOG 1LH | Physical Geography Laboratory - Honors | |
| GEOL 1 | Physical Geology | |

| | GEOL 7 | Geology of California |
|---|--------------------|---|
| | GEOL 8 | Earth Science |
| | GEOL 8H | Earth Science - Honors |
| | GEOL 8L | Earth Science Laboratory |
| | GEOL 9 | Environmental Geology |
| | GEOL 10 | Natural Disasters |
| | METO 3 | Weather and the Atmospheric Environment |
| | METO 3L | Weather and Atmospheric Environment |
| | | Laboratory |
| | OCEA 10 | Introduction to Oceanography |
| | OCEA 10H | Introduction to Oceanography - Honors |
| | OCEA 10L | Introduction to Oceanography Laboratory |
| | PHSC 3 | Energy Science |
| | PHSC 9 | Physical Science |
| | PHYS 1 | Physics |
| | PHYS 2AG | General Physics |
| | PHYS 2BG | General Physics |
| | PHYS 4A | Engineering Physics |
| | PHYS 4B | Engineering Physics |
| | PHYS 4C | Engineering Physics |
| | PHYS 6A | General Physics with Calculus |
| | PHYS 6B | General Physics with Calculus |
| L | ife Sciences | |
| | AGOR 1 | Horticultural Science |
| | ANAT 10A | Introductory Human Anatomy |
| | ANAT 10B | Introductory Human Physiology |
| | ANAT 35 | Human Anatomy |
| | ANAT 36 | Human Physiology |
| | ANTH 1 | Biological Anthropology |
| | ANTH 1H | Biological Anthropology - Honors |
| | ANTH 1L | Biological Anthropology Laboratory |
| | BIOL 1 | General Biology |
| | BIOL 2 | Plant and Animal Biology |
| | BIOL 3 | Ecology and Field Biology |
| | BIOL 4 | Biology for Majors |
| | BIOL 4H | Biology for Majors - Honors |
| | BIOL 6 | Humans and the Environment |
| | BIOL 6L | Humans and the Environment Laboratory |
| | BIOL 8 | Cell and Molecular Biology |
| | BIOL 17 | Neurobiology and Behavior |
| | BIOL 20 | Marine Biology |
| | BIOL 21 | Marine Biology Laboratory |
| | BIOL 25 | Conservation Biology |
| | BIOL 34 | Fundamentals of Genetics |
| | BIOL 34L | Fundamentals of Genetics Lab |
| | MICR 1 | Principles of Microbiology |
| | MICR 22 PSYC 1B | Microbiology Biological Psychology |
| | FSTUID | |
| | | |

Area C: Arts and Humanities

Course Prefix Course Name

Units

Choose two courses, with at least one from the Arts and one from Humanities:

6

| AHIS1Understanding the Visual ArtsTHTR 10History of Theater ArtsAHIS3History of Women and Gender in ArtHistory of Women and Gender in ArtARAB 1AHIS3History of Women and Gender in ArtARAB 1Elementary ArabicAHIS4History of Westen Art: Prehistoric Through ColhicContinuing Elementary ChineseAHIS5History of Westen Art: Prehistoric Through ColhicContinuing Elementary ChineseAHIS4History of Westen Art: Prehistoric Through ColhicChin 1AHIS5History of Westen Art: Rehistoric Through MoordChin 3AHIS5History of Westen Art: Rehistoric Through Through Modern ArtChin 4AHIS5History of Modern ArtFRCH 1AHIS6History of Modern ArtFRCH 1AHIS8History of Medieval Art and ArchitectureFRCH 1AHIS8History of Medieval Art and ArchitectureFRCH 1AHIS9History of Medieval Art and ArchitectureFRCH 3AHIS7History of Medieval Art and ArchitectureFRCH 3AHIS7History of Medieval Art and ArchitectureFRCH 4AHIS7Continuing Elementary GermanAHIS7Collucar Through Modern 1AHIS7History of Medieval Art and ArchitectureAHIS7History of Nodern Art and Architectur | | | | |
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| ARCH 251World Architecture II-Honors 1ARTB 14Basic Studio ArtsHIST 7History of the United States to 1877 1ARTD 15ADrawing: BeginningHIST 7History of the United States to 1877 - Honors 1ARTD 20Design: Two-DimensionalHIST 8History of the United States from 1865 1ARTD 20Art, Artists and SocietyHIST 8History of the United States from 1865 - Honors 1ARTS 20Art, Artists and SocietyHIST 8History of the United States from 1865 - Honors 1ARTS 40ASculpture: BeginningHIST 10History of Premodern Asia 1 HIST 10ARTS 40ASculpture: BeginningHIST 11History of Modern Asia 1 HIST 10DN-T 20History and Appreciation of DanceHIST 16The Wild West - A History, 1800-1890 1ID 14History of Furniture and Decorative ArtsHIST 19History of Mexico 1MUS 11AMusic Literature SurveyHIST 30History of the African American 1619-1877 1MUS 12History of JazzHIST 35History of the Africa American 1MUS 13HIntroduction to Music Appreciation - HonorsHIST 39California History 1MUS 14AWorld MusicHIST 40History of the Mexican American 1MUS 15HRock Music History and Appreciation - HonorsHIST 30Intermediate ItalianMUS 15HRock Music History and Appreciation - HonorsITAL 1Continuing Itermediate ItalianMUS 15HHistory of PhotographyJAPN 1Continuing Itermetary JapanesePHOT 15 <td>AHIS 15</td> <td>Culture and Art of Pompeii</td> <td></td> <td>1</td> | AHIS 15 | Culture and Art of Pompeii | | 1 |
| ARTB 120World Architecture inARTB 14Basic Studio ArtsARTD 15ADrawing: BeginningARTD 20Design: Two-DimensionalARTD 25ABeginning Painting IARTG 20Art, Artists and SocietyARTS 22Design: Three-DimensionalARTS 23CCeramics: Beginning IARTS 24History of the United States from 1865 -ARTS 27Design: Three-DimensionalARTS 20Art, Artists and SocietyARTS 20Ceramics: Beginning IARTS 40ASculpture: BeginningDN-T 20History of Furniture and Decorative ArtsMUS 7Fundamentals of MusicMUS 11AMusic Literature SurveyMUS 12History of JazzMUS 12History of JazzMUS 13Introduction to Music Appreciation - HonorsMUS 14AWorld MusicMUS 15Rock Music History and Appreciation - HonorsMUS 14Performance of LiteratureMUS 15History of PhotographySPCH 4Performance of Literature | | | HIST 4H | World History: Early Modern to the Present - Honors ¹ |
| ARTD 15ADrawing: BeginningARTD 15ADrawing: BeginningARTD 20Design: Two-DimensionalARTD 25ABeginning Painting IARTG 20Art, Artists and SocietyARTS 22Design: Three-DimensionalARTS 30ACeramics: Beginning IARTS 30ACeramics: Beginning IARTS 40ASculpture: BeginningID14History of Furniture and Decorative ArtsID14History of Furniture and Decorative ArtsMUS 7Fundamentals of MusicMUS 11AMusic Literature SurveyMUS 12History of JazzMUS 13Introduction to Music Appreciation - HonorsMUS 14AWorld MusicMUS 15Rock Music History and Appreciation - HonorsMUS 15Rock Music History and Appreciation - HonorsMUS 15Rock Music History and Appreciation - | | | HIST 7 | |
| ARTD 20Design: Two-DimensionalHonors 1ARTD 25ABeginning Painting IARTG 20Art, Artists and SocietyARTS 22Design: Three-DimensionalARTS 30ACeramics: Beginning IARTS 40ASculpture: BeginningDN-T 20History and Appreciation of DanceID 14History of Fundamentals of MusicMUS 11AMusic Literature and Decorative ArtsMUS 11BMusic Literature SurveyMUS 13Introduction to Music Appreciation - HonorsMUS 14AWorld MusicMUS 14BAmerican Folk MusicMUS 15HRock Music History and Appreciation - HonorsMUS 15HRock Music History and Appreciation - HonorsPHOT 15History of Photography SPCH 4PHOT 15History of PhotographySPCH 4Performance of Literature | | | | |
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| ARTS 30ACeramics: Beginning IARTS 40ASculpture: BeginningDN-T 20History and Appreciation of DanceID 14History of Furniture and Decorative ArtsMUS 7Fundamentals of MusicMUS 11AMusic Literature SurveyMUS 11BMusic Literature SurveyMUS 12History of JazzMUS 13Introduction to Music Appreciation - HonorsMUS 14AWorld MusicMUS 15Rock Music History and Appreciation - HonorsMUS 15Rock Music History and Appreciation - HonorsMUS 15Rock Music History and Appreciation - HonorsMUS 15Rock Music History and Appreciation - HonorsPHOT 15History of PhotographySPCH 4Performance of Literature | | - | | Honors ¹ |
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| MUS 7Fundamentals of MusicHIST 30HIST 30HIST of the African American 1619-1877MUS 11AMusic Literature SurveyHIST 31HIST of the African American 1MUS 11BMusic Literature SurveyHIST 31HIST of the Africa 1MUS 12History of JazzHIST 35HIstory of Africa 1MUS 13Introduction to Music Appreciation - HonorsHIST 36Women in American History 1MUS 13HIntroduction to Music Appreciation - HonorsHIST 40HIstory of the Mexican American 1MUS 14AWorld MusicHIST 40History of the Mexican American 1MUS 15ARock Music History and Appreciation - HonorsITAL 1Elementary ItalianMUS 15HRock Music History and Appreciation - HonorsITAL 3Intermediate ItalianPHOT 15History of PhotographyJAPN 1Elementary JapaneseJAPN 1Elementary JapaneseIAPA 2Continuing Elementary Japanese | | | HIST 19 | History of Mexico ¹ |
| MUS 11AMusic Literature SurveyHIST 31History of the African American 1MUS 11BMusic Literature SurveyHIST 31History of Africa 1MUS 12History of JazzHIST 35History of Africa 1MUS 13Introduction to Music AppreciationHIST 36Women in American History 1MUS 13HIntroduction to Music Appreciation - HonorsHIST 39California History 1MUS 14AWorld MusicHIST 40History of the Mexican American 1MUS 14BAmerican Folk MusicITAL 1Elementary ItalianMUS 15Rock Music History and Appreciation - HonorsITAL 2Continuing Elementary ItalianMUS 15HRock Music History and Appreciation - HonorsITAL 4Continuing Intermediate ItalianPHOT 15History of PhotographyJAPN 1Elementary JapaneseVARMPerformance of LiteratureVARM 2Continuing Elementary Intermediate | | | HIST 30 | History of the African American 1619-1877 |
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| MUS 13Introduction to Music AppreciationHIST 36Women m American HistoryMUS 13HIntroduction to Music Appreciation - HonorsHIST 39California History 1MUS 14AWorld MusicHIST 40History of the Mexican American 1MUS 14BAmerican Folk MusicHIST 40History of the Mexican American 1MUS 14BAmerican Folk MusicITAL 1Elementary ItalianMUS 15Rock Music History and Appreciation - HonorsITAL 2Continuing Elementary ItalianMUS 15HRock Music History and Appreciation - HonorsITAL 4Continuing Intermediate ItalianPHOT 15History of PhotographyJAPN 1Elementary JapaneseJAPN 1Elementary JapaneseJAPN 2Continuing Elementary Japanese | | - | | |
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| MUS 15 Rock Music History and Appreciation ITAL 2 Continuing Elementary Italian MUS 15H Rock Music History and Appreciation - Honors ITAL 3 Intermediate Italian PHOT 15 History of Photography ITAL 4 Continuing Intermediate Italian SPCH 4 Performance of Literature JAPN 1 Elementary Japanese | | | | |
| MUS 15H Rock Music History and Appreciation - Honors ITAL 3 Intermediate Italian PHOT 15 History of Photography ITAL 60 Italian Culture Through Cinema SPCH 4 Performance of Literature JAPN 1 Elementary Japanese | | | | |
| Honors ITAL 4 Continuing Intermediate Italian PHOT 15 History of Photography ITAL 60 Italian Culture Through Cinema SPCH 4 Performance of Literature JAPN 1 Elementary Japanese | | | | |
| PHOT 15 History of Photography ITAL 60 Italian Culture Through Cinema SPCH 4 Performance of Literature JAPN 1 Elementary Japanese | | | | |
| SPCH 4 Performance of Literature JAPN 1 Elementary Japanese | PHOT 15 | | | - |
| IADN 2 Continuing Elementary Japanese | | | | |
| | THTR 9 | Introduction to Theater Arts | JAPN 2 | Continuing Elementary Japanese |

| JAPN 3 | Intermediate Japanese |
|-----------|--|
| JAPN 4 | Continuing Intermediate Japanese |
| JAPN 5 | Advanced Japanese |
| LATN 1 | Elementary Latin |
| LATN 2 | Continuing Elementary Latin |
| LIT 1 | Early American Literature |
| LIT 2 | Modern American Literature |
| LIT 3 | Multicultural American Literature |
| LIT 6A | Survey of English Literature |
| LIT 6B | Survey of English Literature |
| LIT 10 | Survey of Shakespeare |
| LIT 11A | World Literature to 1650 |
| LIT 11B | World Literature from 1650 |
| LIT 14 | Introduction to Modern Poetry |
| LIT 15 | Introduction to Cinema |
| LIT 20 | African American Literature |
| LIT 25 | Contemporary Mexican American Literature |
| LIT 36 | Introduction to Mythology |
| LIT 40 | Children's Literature |
| LIT 46 | The Bible As Literature: Old Testament |
| LIT 47 | The Bible As Literature: New Testament |
| PHIL 5 | Introduction to Philosophy |
| PHIL 5H | Introduction to Philosophy - Honors |
| PHIL 12 | Introduction to Ethics |
| PHIL 12H | Introduction to Ethics - Honors |
| PHIL 15 | Major World Religions |
| PHIL 15H | Major World Religions - Honors |
| PHIL 20A | History of Ancient Philosophy |
| PHIL 20AH | History of Ancient Philosophy - Honors |
| PHIL 20B | History of Modern Philosophy |
| PHIL 20BH | History of Modern Philosophy - Honors |
| POLI 5 | Political Theory I - Ancient to Contemporary |
| POLI 7 | Political Theory II - Early Modern to Contemporary ¹ |
| SIGN 101 | American Sign Language 1 |
| SIGN 101H | American Sign Language 1 - Honors |
| SIGN 102 | American Sign Language 2 |
| SIGN 103 | American Sign Language 3 |
| SIGN 104 | American Sign Language 4 |
| SIGN 202 | American Deaf Culture |
| SPAN 1 | Elementary Spanish |
| SPAN 2 | Continuing Elementary Spanish |
| SPAN 3 | Intermediate Spanish |
| SPAN 4 | Continuing Intermediate Spanish |
| SPAN 1S | Spanish for the Spanish Speaking |
| SPAN 2S | Continuing Spanish for the Spanish Speaking |
| | |

¹ Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

Area D: Social, Political, and Economic Institutions

| | | I, Political, and Economic Institutions | |
|---|-----------------|---|-------|
| - | ourse Prefix | Course Name | Units |
| С | | se from the following | 3 |
| | HIST 1 | History of the United States ¹ | |
| | HIST 7 | History of the United States to 1877 ¹ | |
| | HIST 7H | History of the United States to 1877 - Honors ¹ | |
| | HIST 8 | History of the United States from 1865 ¹ | |
| | HIST 8H | History of the United States from 1865 - Honors ¹ | |
| | HIST 30 | History of the African American 1619-1877 1 | |
| | HIST 31 | History of the African American ¹ | |
| | HIST 36 | Women in American History ¹ | |
| | HIST 40 | History of the Mexican American ¹ | |
| | POLI 1 | Introduction to American Government and Politics | |
| | POLI 1H | Introduction to American Government and Politics - Honors | |
| | POLI 25 | Latino Politics in the United States | |
| | POLI 35 | African American Politics | |
| E | ective Courses | | |
| С | hoose one cours | se from the following | 3 |
| | AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | |
| | AHIS 9 | History of Asian Art and Architecture | |
| | AHIS 12 | History of Precolumbian Art and Architecture | |
| | AHIS 12H | History of Precolumbian Art and Architecture - Honors | |
| | AHIS 15 | Culture and Art of Pompeii | |
| | ANTH 3 | Archaeology | |
| | ANTH 4 | Archaeology | |
| | ANTH 5 | Principles of Cultural Anthropology | |
| | ANTH 22 | General Cultural Anthropology | |
| | ANTH 30 | The Native American | |
| | BUSC 1A | Principles of Economics - Macroeconomics | |
| | BUSC 1AH | Principles of Economics - Macroeconomics - Honors | |
| | BUSC 1B | Principles of Economics - Microeconomics | |
| | BUSC 1BH | Principles of Economics - Microeconomics - Honors | |
| | CHLD 1 | Child, Family, School and Community | |
| | CHLD 10 | Child Growth and Lifespan Development ¹ | |
| | CHLD 10H | Child Growth and Lifespan Development- Honors ¹ | |
| | CHLD 11 | Child and Adolescent Development ¹ | |
| | FASH 14 | Dress, Culture, and Identity | |
| | GEOG 2 | Human Geography | |
| | GEOG 2H | Human Geography - Honors | |
| | GEOG 5 | World Regional Geography | |
| | GEOG 8 | The Urban World | |
| | GEOG 30 | Geography of California | |
| | GEOG 30H | Geography of California - Honors | |

| HIST 3 | World History: Prehistoric to Early Modern |
|----------|---|
| HIST 3H | World History: Prehistoric to Early Modern - Honors ¹ |
| HIST 4 | World History: Early Modern to the Present |
| HIST 4H | World History: Early Modern to the Present - Honors ¹ |
| HIST 10 | History of Premodern Asia ¹ |
| HIST 11 | History of Modern Asia ¹ |
| HIST 16 | The Wild West - A History, 1800-1890 ¹ |
| HIST 19 | History of Mexico ¹ |
| HIST 35 | History of Africa ¹ |
| HIST 39 | California History ¹ |
| HIST 44 | History of Native Americans |
| JOUR 100 | Introduction to Mass Media |
| JOUR 107 | Race, Culture, Sex, and Mass Media Images |
| POLI 2 | Comparative Politics |
| POLI 5 | Political Theory I - Ancient to Contemporary |
| POLI 7 | Political Theory II - Early Modern to Contemporary ¹ |
| POLI 9 | Introduction to International Relations ¹ |
| POLI 10 | Environmental Politics |
| PSYC 1A | Introduction to Psychology |
| PSYC 1AH | Introduction to Psychology - Honors |
| PSYC 14 | Developmental Psychology ¹ |
| PSYC 14H | Developmental Psychology - Honors ¹ |
| PSYC 15 | Introduction to Child Psychology ¹ |
| PSYC 19 | Abnormal Psychology |
| PSYC 25 | The Psychology of Women ¹ |
| R-TV 01 | Introduction to Electronic Media |
| SOC 1 | Sociology |
| SOC 1H | Sociology - Honors |
| SOC 2 | Contemporary Social Problems |
| SOC 2H | Contemporary Social Problems - Honors |
| SOC 4 | Introduction to Gerontology |
| SOC 5 | Introduction to Criminology |
| SOC 5H | Introduction to Criminology - Honors |
| SOC 14 | Marriage and the Family |
| SOC 14H | Marriage and the Family - Honors |
| SOC 15 | Child Development ¹ |
| SOC 20 | Sociology of Ethnic Relations |
| SOC 20H | Sociology of Ethnic Relations - Honors |
| SPCH 7 | Intercultural Communication |
| SPCH 7H | Intercultural Communication - Honors |
| SPCH 26 | Interpersonal Communication ¹ |
| SPCH 26H | Interpersonal Communication - Honors ¹ |
| SPCH 30 | Gateway to Communication Studies |
| | |

Area E: Lifelong Understanding and Self-Development

| | | J J | |
|---|-----------------|---|-------|
| С | ourse Prefix | Course Name | Units |
| С | noose one cours | se from the following | 3 |
| | AD 3 | Chemical Dependency: Intervention, Treatment and Recovery | |
| | BIOL 5 | Contemporary Health Issues | |
| | BIOL 13 | Human Reproduction, Development and Aging | |
| | BIOL 15 | Human Sexuality | |
| | BIOL 15H | Human Sexuality - Honors | |
| | CHLD 10 | Child Growth and Lifespan Development ¹ | |
| | CHLD 10H | Child Growth and Lifespan Development- Honors ¹ | |
| | CHLD 11 | Child and Adolescent Development ¹ | |
| | COUN 5 | Career and Life Planning | |
| | FCS 41 | Life Management | |
| | KIN 34 | Fitness for Living | |
| | LEAD 55 | Exploring Leadership | |
| | NF 10 | Nutrition for Health and Wellness | |
| | NF 12 | Sports Nutrition | |
| | NF 25 | Introduction to Nutrition Science | |
| | NF 25H | Introduction to Nutrition Science - Honors | |
| | NF 28 | Cultural and Ethnic Foods | |
| | PSYC 14 | Developmental Psychology ¹ | |
| | PSYC 14H | Developmental Psychology - Honors ¹ | |
| | PSYC 15 | Introduction to Child Psychology ¹ | |
| | PSYC 25 | The Psychology of Women ¹ | |
| | PSYC 26 | Psychology of Sexuality | |
| | PSYC 33 | Psychology for Effective Living | |
| | PUBH 24 | Introduction to Public Health | |
| | SOC 15 | Child Development | |
| | SPCH 26 | Interpersonal Communication ¹ | |
| | SPCH 26H | Interpersonal Communication - Honors ¹ | |
| | | | |

¹ Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

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PROGRAMS

Mt. San Antonio College is proud to offer more than 200 different academic and training programs for our students. No matter what career you want to pursue, four-year university you want to transfer to, or skill you want to learn, Mt. SAC has a program for you. Browse the **"Explore Your Future"** link on the left to find programs that are right for you.

<u>Certificates</u> A

| Accounting | 48 |
|--|----|
| Accounting – Bookkeeping | |
| Accounting – Computerized | 48 |
| Accounting – Financial Planning | 49 |
| Accounting – Managerial | 49 |
| Accounting – Payroll | 49 |
| Administration of Justice | |
| Administrative Assistant – Level I | 50 |
| Administrative Assistant – Level II | 50 |
| Administrative Assistant – Level III | 51 |
| Air Conditioning and Refrigeration | 51 |
| Aircraft Powerplant Maintenance Technology – Day | 52 |
| Aircraft Powerplant Maintenance Technology – Evening | 52 |
| Airframe Maintenance Technology – Day | |
| Airframe Maintenance Technology – Evening | 54 |
| Alcohol/Drug Counseling | 55 |
| Android Programming | 55 |
| Animal Science Fundamentals | 56 |
| Animation – Game & Interactive Multimedia Design I | 56 |
| Animation – Game & Interactive Multimedia Design II | 56 |
| Animation – Junior Animator Level I | 57 |
| Animation – Junior Animator Level II | 57 |
| Architectural Design Concentration Level I | 58 |
| Architectural Design Concentration Level II | |
| Architectural Design Concentration Level III | 58 |
| Architectural Technology Concentration Level I | |
| Architectural Technology Concentration Level II | 59 |
| Architecture Foundational Skills | |
| Athletic Trainer Aide I | 60 |
| | |

В

| - | |
|---|----|
| Building Automation | 60 |
| Business: Human Resource Management – Level I | 61 |
| Business: Human Resource Management – Level II | 61 |
| Business: Human Resource Management – Level III | 62 |
| Business: International – Level I | 62 |
| Business: International – Level II | 62 |
| Business: International – Level III | 63 |
| Business: Management – Level I | 64 |
| Business: Management – Level II | 64 |
| Business: Management – Level III | |
| Business: Retail Management – Level I | 65 |
| Business: Retail Management – Level II | 65 |
| Business: Retail Management – Level III | |
| Business: Small Business Management – Level I | |
| Business: Small Business Management – Level II | 67 |
| Business: Small Business Management – Level III | |
| 5 | |

С

| Children's Program: General – Level I68Children's Program: General – Level II70Children's Program: Teaching70CIS Professional Certificate in C++ Programming71CIS Professional Certificate in Excel and Access72CIS Professional Certificate in Java Programming72CIS Professional Certificate in Networking73CIS Professional Certificate in Networking73CIS Professional Certificate in Networking73CIS Professional Certificate in Network Security73CIS Professional Certificate in Network Security74CIS Professional Certificate in SQL74CIS Professional Certificate in Visual Basic Programming75CIS Professional Certificate in Web Programming75CIS Professional Certificate in Web Programming75CIS Professional Certificate76Computed Tomography76Computer and Networking Technology – Level I78Computer and Networking Technology – Level II79Computer Relations80Culinary Arts.81 | Children's Program: Administration | |
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Accounting

Business Division

Certificate L0374

The Accounting Certificate provides basic accounting skills combined with in-depth training in a variety of accounting concepts, preparing the student for entry-level positions and/or professional advancement in a wide selection of accounting jobs. These jobs include general accounting, cost accounting, payroll, inventory management, asset management, accounts receivable, accounts payable, budgets and forecast, financial analysis, etc.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|---------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSA 8 | Principles of Accounting - Managerial | 5 |
| BUSA 21 | Cost Accounting | 3-4.5 |
| or BUSA 58 | Federal Income Tax Law | |
| BUSA 52 | Intermediate Accounting | 3 |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1 |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1 |
| BUSM 20 | Principles of Business | 3 |
| Total Units | | 21-22.5 |

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Analyze and record transactions, using a journal and a ledger, of varying degrees of difficulty including adjusting, and closing entries.
- Interpret accounting statements.
- Explain the role of the managerial accountant and describe the uses of managerial accounting information.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Accounting - Bookkeeping

Business Division Certificate E0504

The Accounting - Bookkeeping Certificate provides basic accounting skills and knowledge, preparing the student for entry-level positions as an accounting clerk in areas such as bookkeeping, accounts receivable, accounts payable, inventory tracing/reporting, bank reconciliation, expense reporting, and account analysis.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| or BUSA 72 | Bookkeeping - Accounting | |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1 |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1-3 |

or BUSA 68 Business Mathematics

Total Units

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Explain the concept of double-entry accounting within the categories of asset, liability, owner's equity, revenue and expense account.
- Use computerized accounting software to process accounting transactions.
- Analyze business transactions, and journalize and post transactions to ledger accounts.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Accounting - Computerized

Business Division

Certificate L0503

The Accounting - Computerized Certificate provides basic accounting skills and knowledge combined with additional training in computer applications common to the accounting industry. This certificate program prepares the student for an entry-level position as an accounting clerk that requires computer skills in areas such as utilization of accounting software, accounts receivable, accounts payable, inventory tracing/ reporting, bank reconciliation, expense reporting and account analysis.

Required Courses

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| or BUSA 72 | Bookkeeping - Accounting | |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1 |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1-3 |
| or BUSA 68 | Business Mathematics | |
| CISB 15 | Microcomputer Applications | 3.5 |
| Choose a minimu | im of 7.5 units from the following: | 7.5 |
| CISB 11 | Computer Information Systems | |
| CISB 16 | Macintosh Applications | |
| CISB 21 | Microsoft Excel | |
| CISB 31 | Microsoft Word | |
| CISB 51 | Microsoft PowerPoint | |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISS 11 | Practical Computer Security | |
| Total Units | | 18-20 |

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Process collections from customers and update accounts receivable.
- · Prepare financial statements.

7-9

· Solve managerial accounting problems with Excel software.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Accounting - Financial Planning

Business Division

Certificate L0599

The Accounting - Financial Planning Certificate provides basic accounting skills and knowledge combined with specialized training in financial planning, preparing the student for entry-level positions and/or professional advancement in their current accounting jobs. Students completing this certificate will be able to assist companies within the areas of budget analysis, tax reporting, financial and investment planning and analysis.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSA 8 | Principles of Accounting - Managerial | 5 |
| BUSA 58 | Federal Income Tax Law | 3 |
| BUSA 71 | Personal Financial Planning | 3 |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1 |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1 |
| Total Units | | 18 |

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Utilize accounting information including financial statements to perform financial statement analysis.
- · Develop a personal definition of financial success.
- Know how to evaluate their own personal spending patterns and create my own personal budgets.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Accounting - Managerial

Business Division

Certificate L0533

The Accounting - Managerial Certificate provides basic accounting skills and knowledge combined with specialized training in managerial accounting, preparing the student for entry-level positions in accounting and/or professional advancement in their current accounting jobs. Students completing this certificate will be able to perform duties in the areas of cost analysis, variance analysis, budget preparation, expense reporting, account analysis, and preparation of various internal reports to assist management in their decision making.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSA 8 | Principles of Accounting - Managerial | 5 |

| BUSA 21 | Cost Accounting | 4.5 |
|-------------|--|------|
| BUSA 52 | Intermediate Accounting | 3 |
| or BUSA 58 | Federal Income Tax Law | |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1 |
| Total Units | | 18.5 |

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Explain the role of the managerial accountant and describe the uses of managerial accounting information.
- Distinguish between product and period costs and explain which of these costs are shown on the balance sheet and which costs are shown on the income statement.
- Describe a job order cost accounting system and explain how manufacturing costs flow through the inventory accounts of the balance sheet and move onto the income statement.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Accounting - Payroll

Business Division

Certificate E0505

The Accounting - Payroll Certificate provides basic accounting skills and knowledge combined with specialized training in payroll, preparing the student for entry-level clerical positions within the payroll segment of accounting. Common duties performed include payroll tax reporting, payroll accounting systems maintenance, and posting payroll transactions to journals/ledgers.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| or BUSA 72 | Bookkeeping - Accounting | |
| BUSA 70 | Payroll and Tax Accounting | 3 |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1 |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1-3 |
| or BUSA 68 | Business Mathematics | |
| Total Units | | 10-12 |

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- identify payroll records required by the employer in preparation for filing tax forms for Social Security, federal and state income tax, state disability benefits, and federal and state unemployment
- · calculate wages and withholding amounts in payroll problems
- assemble payroll record keeping requirements for employers under current state and federal laws

Administration of Justice

Technology and Health Division Certificate T0406

The Certificate in Administration of Justice program is intended to prepare students for entry-level employment following graduation. The courses emphasize the modern role of law enforcement and corrections within the criminal justice systems. Written and oral communication skills are a consistent focus. Entry-level employment opportunities available after completion of this program may include law enforcement as peace officers, corrections officers, custodial officers, non-sworn security and investigations, other non-sworn positions in law enforcement and public service.

Required Courses

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| ADJU 1 | The Administration of Justice System | 3 |
| ADJU 2 | Principles and Procedures of the Justice System | 3 |
| ADJU 3 | Concepts of Criminal Law | 3 |
| ADJU 4 | Legal Aspects of Evidence | 3 |
| ADJU 5 | Community Relations | 3 |
| ADJU 68 | Administration of Justice Report Writing | 3 |
| Choose four from | n the following: | 12 |
| ADJU 6 | Concepts of Enforcement Services | |
| ADJU 9 | Introduction to Homeland Security | |
| ADJU 10 | Introduction to Correctional Sciences | |
| ADJU 13 | Concepts of Traffic Services | |
| ADJU 20 | Principles of Investigation | |
| ADJU 38 | Narcotics Investigation | |
| ADJU 59 | Gangs and Corrections | |
| ADJU 74 | Vice Control | |
| ADJU 50 | Introduction to Forensics for Criminal Justice | |
| Total Units | | 30 |

Administration of Justice Website (http://www.mtsac.edu/justice)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate the principals involved in documenting the investigation of criminal activity.
- · Identify and apply legal precedents in field work.
- Demonstrate familiarity with the social factors related to police interaction with communities.
- Demonstrate understanding of how criminal codes are used and how statutory law is practically applied.
- Demonstrate the ability to use technology and other resources to research social and legal aspects of the criminal justice system.
- Demonstrate the ability to present information in diverse circumstances, with various cultures and communities, involving public and media issues.

 Understand professional skills related to court testimony, interview, interrogation, and law enforcement nomenclature.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Administrative Assistant - Level I

Business Division

Certificate E0516

The Level I Certificate prepares students for entry-level clerical positions where keyboarding and basic office skills are the primary functions.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|----------------------------|-------|
| CISB 10 | Office Skills | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| CISB 31 | Microsoft Word | 3 |
| Total Units | | 9.5 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Touch type effectively.
- · Effectively use formulas and functions in worksheets.
- Use Microsoft Word to create professional looking reports.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Administrative Assistant - Level II

Business Division Certificate L0594

The Level II Certificate prepares students for clerical positions where, in addition to general office skills, written communication and advanced word processing skills are needed.

| Course Prefix | Course Name | Units |
|------------------------------|---|------------|
| Completion of the coursework | Administrative Assistant - Level 1 | 9.5 |
| PLUS | | |
| Completion of the coursework | Administrative Assistant - Level II | 9 |
| Total Units | | 18.5 |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name sistant - Level I Coursework | Units |
| | | Units 3 |
| Administrative As | sistant - Level I Coursework | |
| Administrative As CISB 10 | Office Skills | 3 |

| Course Prefix | Course Name | Units |
|------------------|---------------------------------|-------|
| Administrative A | Assistant - Level II Coursework | |
| BUSO 25 | Business Communications | 3 |
| CISB 21 | Microsoft Excel | 3 |
| CISB 51 | Microsoft PowerPoint | 3 |
| Total Units | | 9 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Touch type effectively.
- · Effectively use formulas and functions in worksheets.
- Use Microsoft Word to create professional looking reports.
- · Be proficient in the use of a word processing software application.
- · Demonstrate the ability to keyboard at the rate of at least 40 words per minute on a 5-minute timed writing with 5 errors or less.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Administrative Assistant - Level III

Business Division

Certificate L0382

The Level III Certificate prepares students for administrative assistant positions where a variety of skills are needed.

Required Courses

| Course Prefix | Course Name | Units |
|--|---|-------------------|
| Completion of th coursework | e Administrative Assistant - Level 1 | 9.5 |
| PLUS | | |
| Completion of th coursework | e Administrative Assistant - Level II | 9 |
| PLUS | | |
| Completion of th coursework | e Administrative Assistant - Level III | 7-8.5 |
| Total Units | | 25.5-27 |
| Course Prefix | Course Name | Units |
| Administrative A | ssistant - Level I Coursework | |
| CISB 10 | Office Skills | 3 |
| | | |
| CISB 15 | Microcomputer Applications | 3.5 |
| CISB 15 CISB 31 | Microcomputer Applications Microsoft Word | 3.5 3 |
| | | |
| CISB 31 | | 3 |
| CISB 31 Total Units Course Prefix | Microsoft Word | <u>3</u> 9.5 |
| CISB 31 Total Units Course Prefix | Microsoft Word Course Name | <u>3</u> 9.5 |
| CISB 31 Total Units Course Prefix Administrative A | Microsoft Word Course Name Issistant - Level II Coursework | 3 9.5 Units |
| CISB 31 Total Units Course Prefix Administrative A BUSO 25 | Microsoft Word Course Name ssistant - Level II Coursework Business Communications | 3 9.5 Units |

| Course Prefix Administrative A | Course Name Issistant - Level III Coursework | Units |
|-----------------------------------|--|-------|
| CISB 16 | Macintosh Applications | 2 |
| BUSO 26 | Oral Communications for Business | 3 |
| Choose one cour following: | rse or any lecture-lab combination from the | 2-3.5 |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISN 21 | Windows Operating System | |
| CISS 11 | Practical Computer Security | |
| CISW 15 | Web Site Development | |
| Total Units | | 7-8.5 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Level Outcomes

Upon successful completion of this program, a students will be able to:

- · Touch type effectively.
- · Effectively use formulas and functions in worksheets.
- · Use Microsoft Word to create professional looking reports.
- · Design and create visual presentations utilizing desktop presentation software (i.e. Power Point).
- Demonstrate ability to effectively produce a variety of professionallooking business publications (at least five) i.e. newsletter, flyer, brochure, letterhead, business card, event program, etc.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Air Conditioning and Refrigeration

Technology and Health Division

Certificate T0909

This program is designed to prepare the student for employment in the broad field of air conditioning, heating, and refrigeration. It leads to occupations in design, manufacturing, operation, sales, distribution, installation, maintenance, and repair. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AIRC 10 | Technical Mathematics in Air Conditioning and Refrigeration | 2 |
| AIRC 11 | Welding for Air Conditioning and Refrigeration | 2 |
| AIRC 12 | Air Conditioning Codes and Standards | 3 |
| AIRC 20 | Refrigeration Fundamentals | 4 |
| AIRC 25 | Electrical Fundamentals for Air Conditioning and Refrigeration | 5 |
| AIRC 26 | Gas Heating Fundamentals | 2 |
| AIRC 30 | Heat Load Calculations and Design | 4 |
| AIRC 31 | Commercial Electrical for Air Conditioning and Refrigeration | 4 |
| AIRC 32A | Air Properties and Measurement | 1.5 |

| AIRC 34 | Advanced Mechanical Refrigeration | 4 | |
|-------------|-----------------------------------|------|--|
| Total Units | | 31.5 | |

Air Conditioning and Refrigeration Website (http://www.mtsac.edu/ airconditioning)

Program Learning Outcome

Upon successful completion of this program, a student will be able to:

- · Properly handle refrigerants based on Section 608 of the clean air act.
- Evaluate, troubleshoot, and modify the electrical, mechanical and air side operation of an air conditioning or refrigeration system.
- Perform a residential heat load calculation, select the equipment, and size the ductwork based on ACCA's Manual J8 and Manual D.
- Select equipment and components for commercial refrigeration systems.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Aircraft Powerplant Maintenance Technology - Day

Technology and Health Division Certificate T0982

This program prepares students to enter employment as a certified powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various powerplants and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and AIRM 65B are equivalent to evening program courses AIRM 95A, AIRM 95B, AIRM 96A, AIRM 96B, AIRM 97A, AIRM 97B, AIRM 98A, and AIRM 98B. Day program courses AIRM 66A and AIRM 66B are equivalent to evening program courses AIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, and AIRM 93B.

Successful completion of this program enables students to take the FAA examination in General and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| Core Courses | | |
| AIRM 65A | Aircraft Powerplant Maintenance Technology | 13 |
| AIRM 65B | Aircraft Powerplant Maintenance Technology: Reciprocating & Turbine | 13 |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3 |

| AIRM 71 | Aviation Maintenance Science | 6 |
|-------------|----------------------------------|-----|
| AIRM 72 | Aircraft Materials and Processes | 1.5 |
| AIRM 73 | Aircraft Welding | 1.5 |
| Total Units | | 41 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 74 | Aircraft Maintenance Technology - Work Experience | 2 |
| AIRM 80 | Laboratory Studies in Aircraft Maintenance Technology | 0.5 |
| PHYS 1 | Physics | 4 |

The Aircraft Powerplant Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA) 800 Independence Avenue, SW Washington, DC 20591 1(800) 835-5322 www.faa.gov (http:// www.faa.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Connect learned theory with real-world problems and develop a logical solution to the problem.
- Locate, interpret and apply technical data from industry manuals and apply that technical data to a maintenance situation.
- Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not.
- · Demonstrate proper use of aircraft repair equipment.
- Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Aircraft Powerplant Maintenance Technology- Evening

Technology and Health Division Certificate T0952

This program prepares students to enter employment as a certified powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various powerplants and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and AIRM 65B are equivalent to evening program coursesAIRM 95A,AIRM 95B,

AIRM 96A, AIRM 96B, AIRM 97A, AIRM 97B, AIRM 98A, and AIRM 98B. Day program courses AIRM 66A and AIRM 66B are equivalent to evening program courses AIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, and AIRM 93B. Successful completion of this program enables students to take the FAA examination in General and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required Courses

| • | | |
|---------------|--|-------|
| Course Prefix | Course Name | Units |
| Core Courses | | |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 71 | Aviation Maintenance Science | 6 |
| AIRM 72 | Aircraft Materials and Processes | 1.5 |
| AIRM 73 | Aircraft Welding | 1.5 |
| AIRM 95A | Aircraft Powerplant Maintenance Technology | 3 |
| AIRM 95B | Aircraft Powerplant Maintenance Technology: Reciprocating Engines | 3 |
| AIRM 96A | Aircraft Powerplant Maintenance Technology: Turbine Engines | 3 |
| AIRM 96B | Aircraft Powerplant Maintenance Technology: Propellers | 3 |
| AIRM 97A | Aircraft Powerplant Maintenance Technology: Instrumentation | 3 |
| AIRM 97B | Aircraft Powerplant Maintenance Technology: Fuel Meter Systems | 3 |
| AIRM 98A | Aircraft Powerplant Maintenance Technology: Ignition Systems | 3 |
| AIRM 98B | Aircraft Powerplant Maintenance Technology: Lubricating Systems | 3 |
| Total Units | | 39 |

Total Units

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 74 | Aircraft Maintenance Technology - Work Experience | 2 |
| AIRM 80 | Laboratory Studies in Aircraft Maintenance Technology | 0.5 |
| PHYS 1 | Physics | 4 |

The Aircraft Powerplant Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA) 800 Independence Avenue, SW Washington, DC 20591 1(800) 835-5322 www.faa.gov (http:// www.faa.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Connect learned theory with real-world problems and develop a logical solution to the problem.
- · Locate, interpret and apply technical data from industry manuals and apply that technical data to a maintenance situation.

- · Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not
- · Demonstrate proper use of aircraft repair equipment.
- · Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- · Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Airframe Maintenance Technology -Day

Technology and Health Division Certificate T0991

This program prepares students to enter employment as a certified airframe technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and AIRM 66B are equivalent to evening program coursesAIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, and AIRM 93B.

Successful completion of this program enables students to take the FAA examinations in Airframe and General. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required Courses

| Course Prefix Core Courses | Course Name | Units |
|-------------------------------|---|-------|
| AIRM 66A | Aircraft Airframe Maintenance Structures | 13 |
| AIRM 66B | Airframe Maintenance Technology | 13 |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 71 | Aviation Maintenance Science | 6 |
| AIRM 72 | Aircraft Materials and Processes | 1.5 |
| AIRM 73 | Aircraft Welding | 1.5 |
| Total Units | | 41 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 74 | Aircraft Maintenance Technology - Work | 2 |
| | Experience | |

| AIRM 80 | Laboratory Studies in Aircraft Maintenance | 0.5 |
|---------|--|-----|
| | Technology | |
| PHYS 1 | Physics | 4 |

Aircraft Maintenance Website (http://www.mtsac.edu/aircraftmaintenance)

The Airframe Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA) 800 Independence Avenue, SW Washington, DC 20591 1(800) 835-5322 www.faa.gov (http://www.faa.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Connect learned theory with real-world problems and develop a logical solution to the problem.
- Locate, interpret and apply technical data from industry manuals and apply that technical data to a maintenance situation.
- Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not.
- · Demonstrate proper use of aircraft repair equipment.
- Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Airframe Maintenance Technology -Evening

Technology and Health Division Certificate T0981

This program prepares students to enter employment as a certified airframe technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and AIRM 66B are equivalent to evening program courses AIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, andAIRM 93B.

Successful completion of this program enables students to take the FAA examinations in Airframe and General. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| Core Courses | | |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 71 | Aviation Maintenance Science | 6 |
| AIRM 72 | Aircraft Materials and Processes | 1.5 |
| AIRM 73 | Aircraft Welding | 1.5 |
| AIRM 90A | Airframe Maintenance Technology | 3 |
| AIRM 90B | Airframe Maintenance Technology: Structure and Design | 3 |
| AIRM 91A | Airframe Maintenance Technology | 3 |
| AIRM 91B | Airframe Maintenance Technology: Aluminum Repair | 3 |
| AIRM 92A | Airframe Maintenance Technology: Hydraulics & Pneu | 3 |
| AIRM 92B | Airframe Maintenance Systems 2 | 3 |
| AIRM 93A | Airframe Maintenance Technology: Systems | 3 |
| AIRM 93B | Airframe Maintenance Technology: Fire Suppression | 3 |
| Total Units | | 39 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 74 | Aircraft Maintenance Technology - Work Experience | 2 |
| AIRM 80 | Laboratory Studies in Aircraft Maintenance Technology | 0.5 |
| PHYS 1 | Physics | 4 |

Aircraft Maintenance Website (http://www.mtsac.edu/aircraftmaintenance)

The Airframe Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA) 800 Independence Avenue, SW Washington, DC 20591 1(800) 835-5322 www.faa.gov (http:// www.faa.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Connect learned theory with real-world problems and develop a logical solution to the problem.
- Locate, interpret and apply technical data from industry manuals and apply that technical data to a maintenance situation.
- Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not.
- · Demonstrate proper use of aircraft repair equipment.
- Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Alcohol & Drug Counseling

Technology and Health Division

Certificate T2101

Upon completion of the required courses with a grade of "C" or better, a Certificate in Alcohol/Drug Studies will be awarded by the Technology and Health Division.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|--|-------|
| AD 1 | Alcohol/Drug Dependency | 3 |
| AD 2 | Physiological Effects of Alcohol/Drugs | 3 |
| AD 3 | Chemical Dependency: Intervention, Treatment and Recovery | 3 |
| AD 4 | Issues in Domestic Violence | 3 |
| AD 5 | Chemical Dependency: Prevention and Education | 1.5 |
| AD 6 | Dual Diagnosis | 3 |
| Skill Courses | | |
| AD 8 | Group Process and Leadership | 3 |
| AD 9 | Family Counseling | 3 |
| AD 10 | Client Record and Documentation | 1.5 |
| AD 11 | Techniques of Intervention and Referral | 3 |
| Field Work Course | es | |
| AD 13 | Internship/Seminar | 4 |
| AD 14 | Advanced Internship/Seminar | 4 |
| Choose two from | the following: | 6 |
| CHLD 10 | Child Growth and Lifespan Development | |
| or CHLD 10 | HChild Growth and Lifespan Development- Honors | |
| PSYC 1A | Introduction to Psychology | |
| or PSYC 1A | HIntroduction to Psychology - Honors | |
| PSYC 19 | Abnormal Psychology | |
| SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| SOC 14 | Marriage and the Family | |
| or SOC 14H | Marriage and the Family - Honors | |
| SOC 15 | Child Development | |
| Total Units | | 41 |

Alcohol and Drug Counseling Website (http://www.mtsac.edu/mentalhealth/alcohol-drug)

Selection Procedure

All classes are open to all students who meet admission requirements and course prerequisites.

Special Instructions

Restricted Electives must be taken prior to enrollment in Field Experience and can be taken in conjunction with core and skills courses.

Working Environment

- · May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- · Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- · Subject to many interruptions
- · Requires decisions/actions related to end of life issues
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

The Alcohol and Drug Counseling program is accredited by the California Association for Alcohol/Drug Educators.

Contact:

California Association for Alcohol/Drug Educators 5230 Clark Avenue, Suite 3 Lakewood, CA 90712 (707) 722-2331 www.caade.org (http:// www.caade.org)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Be technically competent to safely practice as an entry-level alcohol & drug counselor.
- · Demonstrate an understanding of ethical & legal requirements for alcohol & drug counselors.
- · Demonstrate the ability to develop and achieve entry-level professional goals.
- · Demonstrate the ability to develop and achieve entry-level professional goals.
- Demonstrate competency in basic counseling skills commensurate with an entry level practitioner in the addictions counseling field.
- · Demonstrate the ability to assess, intervene, and refer clients with cooccurring mental health and substance abuse disorder to appropriate resources.
- · Students completing the certificate/associates degree program will demonstrate the ability to prepare and develop professional treatment plans and other clinical documentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Android Programming

Certificate E0407

This curriculum is designed for returning CIS professionals with several years experience or current students who have completed several CIS courses. The Android Programming certificate will give students skills that are necessary to obtain jobs in the area of mobile programming, that is used more and more in industry. Students will learn different

software packages for developing Android applications as well as general programming skills.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| CISP 21 | Programming in Java | 3 |
| CISP 21L | Programming in Java Laboratory | 0.5 |
| CISP 52 | Mobile Device Programming | 3 |
| CISP 52L | Mobile Device Programming Laboratory | 0.5 |
| CISP 54 | Programming for Android Devices | 3 |
| CISP 54L | Android Programming Laboratory | 0.5 |
| Total Units | | 13 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes Animal Science Fundamentals

Natural Sciences Division

Certificate E0360

This certificate program is designed for students to acquire basic knowledge in the fundamentals of Animal Science. This can be utilized to gain entry level employment on farms, ranches and in agricultural sales and services. It is also the first step in the pathway to a career in becoming an educator in Agricultural Sciences. All courses are applicable for degree requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| AGAN 1 | Animal Science | 3 |
| AGAN 2 | Animal Nutrition | 3 |
| AGAN 51 | Animal Handling and Restraint | 3 |
| AGAN 94 | Animal Breeding | 3 |
| AGLI 96 | Animal Sanitation and Disease Control | 3 |
| Total Units | | 15 |

Animal Sciences Website (http://www.mtsac.edu/animal)

Program Learning Outcomes

Upon successful completion of this program, a student will:

· be able to explain the historical and current economic importance of the livestock and pet animal industries.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Animation - Game & Interactive **Multimedia Design I**

Arts Division

Certificate E0339

This multi-level certificate program offers skills needed for creative careers that integrate animation with gaming, video, audio, graphics, and special effects for the Web, broadcast, film, presentation, or mobile content. The Animation - Game & Interactive Multimedia Level I Certificate offers an early exit point of 12 Units and provides the skills

necessary for entry-level employment as a junior web animator or animation designer, 2D Game Design Assistant, or junior game designer.

Required Courses

| Code | Title | Units |
|---|-------|-------|
| ANIM 100 (http:// catalog.mtsac.ed archive/2017-201 search/?P=ANIM %20100) or ARTC 100 | 8/ | 3 |
| (http:// catalog.mtsac archive/2017-2 search/? P=ARTC %20100) | .edu/ | |
| ANIM 131 (http:// catalog.mtsac.ed archive/2017-201 search/?P=ANIM %20131) | 8 | 3 |
| ANIM 172 (http:// catalog.mtsac.ed archive/2017-201 search/?P=ANIM %20172) | 8/ | 3 |
| ANIM 175 (http:// catalog.mtsac.ed archive/2017-201 search/?P=ANIM %20175) | l { | 3 |
| Total Units | | 12 |

Recommended Elective

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| ANIM 137A | Work Experience in New Digital Media | 1 |

Animation & Gaming Website (http://mtsac.edu/animation)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

· successfully create a traditional game representative of their skills necessary for their chosen gaming genre.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Animation – Game & Interactive **Multimedia Design II**

Arts Division Certificate L0340

This multi-level certificate program offers skills needed for creative careers that integrate animation with gaming, video, audio, graphics, and special effects for the Web, broadcast, film, presentation, or mobile content. The Animation - Game & Interactive Multimedia Design Level II certificate provides additional expertise for employment opportunities

in areas of game design, digital animation, motion graphics, and special effects.

Required Courses

| Course Name | Units |
|--|---|
| | 12 |
| | |
| | 9 |
| | 21 |
| Course Name | Units |
| e & Interactive Multimedia Design - Level I | |
| Digital Paint and Ink | 3 |
| Graphic Design I | |
| Introduction to Gaming | 3 |
| Motion Graphics, Compositing and Visual Effects | 3 |
| Digital Animation | 3 |
| | 12 |
| Course Name | Units |
| e & Interactive Multimedia Design - Level II | |
| 2D Game Level Design | 3 |
| Demo Reel | 3 |
| Portfolio | |
| Game Prototype Production | 3 |
| | imation - Game & Interactive Multimedia bursework imation - Game & Interactive Multimedia oursework Course Name e & Interactive Multimedia Design - Level I Digital Paint and Ink Graphic Design I Introduction to Gaming Motion Graphics, Compositing and Visual Effects Digital Animation Course Name e & Interactive Multimedia Design - Level II 2D Game Level Design Demo Reel Portfolio |

Total Units

Recommended Elective

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| ANIM 137A | Work Experience in New Digital Media | 1 |

Animation & Gaming Website (http://mtsac.edu/animation)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

 successfully create a digital portfolio representative of their skills necessary for their chosen career.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Animation - Junior Animator Level I

Arts Division Certificate E0414

Level I of a multi-level certificate program provides skills based on the principles of storytelling and animation using both traditional and 3D media. Students prepare for a junior level creative career in the animation industry by mastering the core skills of drawing, storyboarding, digital art, 2D and 3D animation, 3D modeling, and motion graphics.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------|-------|
| Core Courses | | |
| ANIM 100 | Digital Paint and Ink | 3 |
| ANIM 101A | Drawing - Gesture and Figure | 3 |
| ANIM 108 | Principles of Animation | 3 |
| ANIM 115 | Storyboarding | 3 |
| ANIM 111A | Animal Drawing | 1.5 |
| or ANIM 116 | Character Development | |
| Total Units | | 13.5 |

Animation & Gaming Website (http://mtsac.edu/animation)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

 successfully create a story board animatic representative of their chosen entertainment field.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Animation - Junior Animator Level II

Arts Division

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Certificate L0416

Level II of a multi-certificate program that provides skills based on the principles of storytelling and animation using both traditional and 3D media. Students prepare for a junior level creative career in the animation industry by mastering the core skills of drawing, storyboarding, digital art, 2D and 3D animation, 3D modeling, and motion graphics.

Required Courses

| • | | |
|------------------|--|-------|
| Course Prefix | Course Name | Units |
| Completion of th | e Animation - Tradigital - Level I coursework | 13.5 |
| PLUS | | |
| Completion of th | e Animation - Tradigital - Level II coursework | 12 |
| Total Units | | 25.5 |
| | 0 | 11 |
| Course Prefix | Course Name | Units |
| Animation - Juni | or Animator - Level I Coursework | |
| ANIM 100 | Digital Paint and Ink | 3 |
| ANIM 101A | Drawing - Gesture and Figure | 3 |
| ANIM 108 | Principles of Animation | 3 |
| ANIM 115 | Storyboarding | 3 |
| ANIM 111A | Animal Drawing | 1.5 |
| or ANIM 116 | Character Development | |
| Total Units | | 13.5 |
| Course Prefix | Course Name | Units |
| Animation - Juni | or Animator - Level II Coursework | |
| ANIM 130 | Introduction to 3D Modeling | 3 |
| ANIM 148 | Demo Reel (Choose two courses from the following:) | 3 |
| Choose two cour | rses from the following: | 6 |
| ANUNA 100 | Intermediate 2D Medaling | |

ANIM 132 Intermediate 3D Modeling

| ANIM 146 | Advanced 3-D Animation | |
|-------------|--|----|
| ANIM 172 | Motion Graphics, Compositing and Visual Effects | |
| ANIM 175 | Digital Animation | |
| Total Units | | 12 |

Animation & Gaming Website (http://mtsac.edu/animation)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

Students will successfully create a portfolio representative of their skills necessary for their chosen animation career

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Design Concentration Level I

Technology and Health Division Certificate B0415

This multi-level certificate program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment in the field or preparation for transfer to the professional school of architecture. The Level I certificate provides a broad overview of the fundamental skills essential to the field, suitable for entry-level employment as an office assistant.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 102 | Design II - Architectural Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 122 | Architectural Presentations | 4 |
| Total Unis | | 16 |

Specific Information

Students receiving financial aid need to declare the level III certificate as their goal to meet Financial Aid requirements.

Architecture Website (http://www.mtsac.edu/architecture)

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Design Concentration Level-II

Technology and Health Division Certificate L0417

This Level II Design Concentration Certificate focuses upon studio design, drawing, and presentation skills, including model-making, sketching and computer applications. The student will prepare a portfolio of creative design assignments. The Level II Design Concentration Certificate prepares students for employment as a design assistant or presentation specialist.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------------------------|---|-------|
| Completion of tl coursework | ne Architectural Design Concentration - Level I | 16 |
| PLUS | | |
| Completion of tl Il coursework | ne Architectural Design Concentration - Level | 11 |
| Total Units | | 27 |
| Course Prefix | Course Name | Units |
| Architectural Te | chnology - Level I Coursework | |
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 102 | Design II - Architectural Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 122 | Architectural Presentations | 4 |
| Total Units | | 16 |
| Course Prefix | Course Name | Units |
| Architectural De | sign Concentration - Level II Coursework | |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 201 | Design III - Environmental Design | 4 |

Architecture Website (http://www.mtsac.edu/architecture)

World Architecture I

Program Learning Outcomes

ARCH 250

Total Units

Upon successful completion of this program, a student will be able to:

• Be employed or actively seeking employment in the field or a related field.

3

11

- · Be technically competent.
- Incorporate basic principles of layout and typography in architectural presentations.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Design Concentration Level-III

Technology and Health Division

Certificate T0386

The Level III Design Concentration Certificate provides additional expertise in portfolio development and professional practice. The Level III Design Concentration Certificate prepares students for employment as an intermediate design assistant or presentation specialist.

| Course Prefix | Course Name | Units |
|------------------------------------|--|-------|
| Completion of the coursework | e Architectural Design Concentration - Level I | 16 |
| PLUS | | |
| Completion of the II coursework | e Architectural Design Concentration - Level | 11 |
| PLUS | | |

| Completion of t | he Architectural Design Concentration - Level | 14 |
|------------------|---|-------|
| III coursework | - | |
| Total Units | | 41 |
| Course Prefix | Course Name | Units |
| Architectural De | esign Concentration - Level I Coursework | |
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 102 | Design II - Architectural Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 122 | Architectural Presentations | 4 |
| Total Units | | 16 |
| Course Prefix | Course Name | Units |
| Architectural De | esign Concentration - Level II Coursework | |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 201 | Design III - Environmental Design | 4 |
| ARCH 250 | World Architecture I | 3 |
| Total Units | | 11 |
| Course Prefix | Course Name | Units |
| Architectural De | esign Concentration - Level III Courses | |
| ARCH 141 | Design Drawing and Communication | 4 |
| ARCH 202 | Design IV - Advanced Project | 4 |
| ARCH 221 | Architectural Illustration | 3 |
| ARCH 251 | World Architecture II | 3 |
| | | |

Architecture Website (http://www.mtsac.edu/architecture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be employed or actively seeking employment in the field or a related field.
- · Be technically competent.
- Present and evaluate the pros and cons of particular design alternative solution.
- Synthesize preliminary design alternatives into one well-presented final architectural design solution.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Technology Concentration Level-I

Technology and Health Division Certificate L0388

This Level I Technology Concentration Certificate focuses upon the preparation of architectural construction documents, with emphasis on computer-aided design and drawing (CADD) applications. Regulatory requirements and an overview of construction practices are also included. The student will prepare a portfolio of CADD documentation, including 2-D and 3-D projections.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------------------------|--|-------|
| Completion of the coursework | he Architecture Foundational Skills Certificate | 12 |
| PLUS | | |
| Completion of the Level I coursew | he Architectural Technology Concentration - ork | 10 |
| Total Units | | 22 |
| Course Prefix | Course Name | Units |
| Architecture For | undational Skills Certificate Coursework | |
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 141 | Design Drawing and Communication | 4 |
| Total Units | | 12 |
| Course Prefix | Course Name | Units |
| Architectural Te | chnology Concentration - Level I Coursework | |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 147 | Architectural CAD and BIM | 3 |
| ECT 70 | Elements of Construction Management | 3 |
| Total Units | | 10 |
| | | 1 |

Architecture Website (http://www.mtsac.edu/architecture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be employed or actively seeking employment in the field or a related field.
- · Be technically competent.
- · Successfully execute orthographic and 3D drawing projections.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Technology Concentration Level-II

Technology and Health Division

Certificate T0389

The Level II Technology Concentration Certificate provides additional expertise in advanced CADD applications and professional practice. The Level II Technology Concentration Certificate prepares students for employment as an intermediate CADD operator or production specialist.

| Course Prefix | Course Name | Units |
|--|---|-------|
| Completion of the coursework | Architecture Foundational Skills Certificate | 12 |
| PLUS | | |
| Completion of the Level I coursewor | e Architectural Technology Concentration - k | 10 |
| PLUS | | |

Total Unite

Completion of the Architectural Technology Concentration -Level II coursework

| Total Units | | 31 |
|-------------------|---|-------|
| Course Prefix | Course Name | Units |
| Architecture Fou | ndational Skills Certificate Coursework | |
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 141 | Design Drawing and Communication | 4 |
| Total Units | | 12 |
| Course Prefix | Course Name | Units |
| Architectural Tec | chnology Concentration - Level I Coursework | |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 147 | Architectural CAD and BIM | 3 |
| ECT 70 | Elements of Construction Management | 3 |
| Total Units | | 10 |
| Course Prefix | Course Name | Units |
| Architectural Tec | chnology Concentration - Level II Courses | |
| ARCH 146 | Architectural Drawings and Fabrications | 3 |
| ECT 26 | Civil Engineering Technology and CADD | 3 |
| ECT 71 | Construction Estimating | 3 |
| Total Units | | 9 |

Architecture Website (http://www.mtsac.edu/architecture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be employed or actively seeking employment in the field or a related field.
- Be technically competent.
- · Successfully execute orthographic and 3D drawing projections.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architecture Foundational Skills

Technology and Health Division

Certificate E0387

This multi-level certificate program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment in the field or preparation for transfer to a professional school of architecture. The Architecture Foundational Skills certificate provides a basic overview of the fundamental skills essential to the field, suitable for entry-level employment as an office assistant.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 141 | Design Drawing and Communication | 4 |
| Total Units | | 12 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Athletic Trainer Aide I

Certificate E0802

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The Athletic Trainer Aide I Certificate provides minimal experience necessary to assist High School Athletic Trainers and Athletic Health Care Providers in the community. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Required Courses

| neganea obaroco | | |
|-----------------|--|-------|
| Course Prefix | Course Name | Units |
| KIN 3 | First Aid and CPR | 3 |
| or KIN 5 | Advanced First Aid/CPR/Emergency Response | |
| KIN 19 | Introduction to Care/Prevention of Activity/ Sports -Related Injuries | 3 |
| KIN 34 | Fitness for Living | 3 |
| KIN 92 | Work Experience - Athletic Training | 2-3 |
| Total Units | | 11-12 |

Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/kinesiology)

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- Identify daily tasks of operating an athletic training room, pre and post practice, and pre and post competition.
- Create athletic injury documentation in hard copy format and on computerized injury tracking systems.
- Recognize injuries and conditions to be treated that require protection of the health care provider, the patient and the health care facility.
- Apply the HOPS (History, Observation, Palpation, and Special Tests) procedure during injury evaluation, under the supervision of a certified athletic trainer.
- Provide acute and sub-acute care for athletic injuries and condition, including, but not limited to modalities, manual therapy and therapeutic exercise.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Building Automation

Technology and Health Division

Certificate T0309

This program is designed to prepare the student for a career in the fields of Building Automation, Energy Management, and Green Building Technologies. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

| Course Prefix | Course Name | Units |
|---------------|---------------------------------|-------|
| AIRC 20 | Refrigeration Fundamentals | 4 |
| AIRC 25 | Electrical Fundamentals for Air | 5 |
| | Conditioning and Refrigeration | |

| AIRC 31 | Commercial Electrical for Air Conditioning and Refrigeration | 4 |
|-------------|---|------|
| AIRC 34 | Advanced Mechanical Refrigeration | 4 |
| AIRC 61 | Building Automation Fundamentals | 2.5 |
| AIRC 65 | Building Automation Networks and Programming | 3 |
| AIRC 67 | Energy Management | 4 |
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| CISW 41 | XML Secure Programming | 3 |
| CNET 56 | Computer Networks | 4 |
| Total Units | | 36.5 |

Building Automation Website (http://www.mtsac.edu/ buildingautomation)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Identify the startup and operational sequence of a chiller plant.
- Understand the purpose and function of chiller plant economizers.
- · Demonstrate the use and application of controlled devices.
- · Develop programming strategies for a chiller plant.
- · Evaluate the energy usage of a multi-story commercial building.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Business: Human Resource Management - Level I

Business Division

Certificate E0531

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. This certificate may aid the student's search for an entry-level job in the business world.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| Total Units | | 9 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Apply management concepts and functions.
- Explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Human Resource Management - Level II

Business Division

Certificate L0534

This certificate builds upon the Level I Certificate to provide students with specific knowledge of human resource management functions. HR law, compensations systems, and an understanding of human motivation provide the student with a solid foundation from which to build a career in human resources.

Required Courses

| Course Prefix | Course Name | Units |
|--------------------------------------|---|-------|
| Completion of th Level I coursewo | ne Business: Human Resource Management - ork | 9 |
| PLUS | | |
| Completion of th Level II coursew | ne Business: Human Resource Management - ork | 9 |
| Total Units | | 18 |
| Course Prefix | Course Name | Units |
| Business: Huma Coursework | n Resource Management - Level I | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Huma Coursework | n Resource Management - Level II | |
| ANTH 22 | General Cultural Anthropology | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSO 25 | Business Communications | 3 |
| Total Units | | 9 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Define organizational culture, socialization and mentoring.
- Compose an appropriate, effective letter presenting good news, bad news, sales, or persuasive content.
- · Analyze social perception.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Human Resource Management - Level III

Business Division

Certificate L0535

Students completing the Level III Certificate will have knowledge and practical experience in business communications and computer use. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern human resource management. Completing the advanced certificate will help those working in the human resource field to prepare for professional certification by the Human Resource Certification Institute.

Required Courses

| - Course Prefix | Course Name | Units |
|---|--|-------|
| Completion of the Level I coursewor | e Business: Human Resource Management - rk | 9 |
| PLUS | | |
| Completion of the Level II coursewo | e Business: Human Resource Management - rk | 9 |
| PLUS | | |
| Completion of the Level III coursewe | e Business: Human Resource Management - ork | 6.5 |
| Total Units | | 24.5 |
| Course Prefix | Course Name | Units |
| Business: Humar Coursework | n Resource Management - Level I | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Humar Coursework | n Resource Management - Level II | |
| ANTH 22 | General Cultural Anthropology | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSO 25 | Business Communications | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Humar Coursework | n Resource Management - Level III | |
| BUSA 70 | Payroll and Tax Accounting | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 6.5 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Identify payroll records required by the employer in preparation for filing tax forms for Social Security, federal and state income tax, state disability benefits, and federal and state unemployment.
- · Calculate wages and withholding amounts in payroll problems.
- Assemble payroll record keeping requirements for employers under current state and federal laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: International - Level I

Business Division

Certificate E0527

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. This program also prepares the student as a business management generalist for companies conducting international trade. This program will afford career opportunities for entry-level employment in international sales and marketing.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| BUSM 20 | Principles of Business | 3 |
| BUSM 51 | Principles of International Business | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Identify how governments influence trade.
- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Have developed a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Business: International - Level II

Business Division

Certificate L0597

In the Business: International - Level II Certificate students will learn methods and approaches to managing the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. Students active in the workforce will acquire new skills that are highly desirable in a fast-paced dynamic global environment, with an emphasis on the small business perspective.

Required Courses

| Course Prefix | Course Name | Units |
|---------------------------------|--|-------|
| Completion of the | e Business: International - Level I coursework | 9 |
| PLUS | | |
| Completion of the coursework | e Business: International - Level II | 10 |
| Total Units | | 19 |
| Course Prefix | Course Name | Units |
| Business: Interna | ational - Level I Coursework | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 51 | Principles of International Business | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Interna | ational - Level II Coursework | |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 66 | Small Business Management | 3 |
| Choose one from | the following: | 4 |
| 011111 | | |
| CHIN 1 | Elementary Chinese | |
| FRCH 1 | Elementary Chinese Elementary French | |
| ••••• | | |
| FRCH 1 | Elementary French | |
| FRCH 1 GERM 1 | Elementary French Elementary German | |
| FRCH 1 GERM 1 ITAL 1 | Elementary French Elementary German Elementary Italian | |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Apply management concepts and functions.
- · Describe business planning for small business.
- Discuss the legal forms of business ownership.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Business: International - Level III

Business Division

Certificate L0528

Upon completion of the Business: International Level III Certificate, students will have acquired the specific skills needed to successfully complete international business transactions. Students will gain a practical, hands-on perspective of how to compete in a global system of conflicting laws, regulations, and requirements.

Required Courses

| nequired Col | u13C3 | |
|--------------------------------|---|-------|
| Course Prefix | Course Name | Units |
| Completion of th | ne Business: International - Level I coursework | 9 |
| PLUS | | |
| Completion of th coursework | ne Business: International - Level II | 10 |
| PLUS | | |
| Completion of th coursework | ne Business: International - Level III | 9 |
| Total Units | | 28 |
| Course Prefix | Course Name | Units |
| Business: Intern | ational - Level I Coursework | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 51 | Principles of International Business | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Intern | ational - Level II Coursework | |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 66 | Small Business Management | 3 |
| Choose one from | n the following: | 4 |
| CHIN 1 | Elementary Chinese | |
| FRCH 1 | Elementary French | |
| GERM 1 | Elementary German | |
| ITAL 1 | Elementary Italian | |
| JAPN 1 | Elementary Japanese | |
| SPAN 1 | Elementary Spanish | |
| Total Units | | 10 |
| Course Prefix | Course Name | Units |
| Business: Intern | ational - Level III Coursework | |
| BUSL 20 | International Business Law | 3 |
| BUSM 50 | World Culture: A Business Perspective | 3 |
| or ANTH 22 | General Cultural Anthropology | |
| BUSM 52 | Principles of Exporting and Importing | 3 |
| Total Units | | 9 |
| | | |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-----------------------------|-------|
| BUSM 81 | Work Experience in Business | 1-4 |
| BUSM 85 | Special Issues in Business | 2 |
| BUSS 85 | Special Issues in Marketing | 2 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

• Explain how a small business can prepare to conduct export operations.

- · Define key international trade documentation requirements.
- · Describe types of international trade transportation intermediaries.

Business: Management - Level I

Business Division

Certificate E0525

The Business Management - Level I Certificate is designed to introduce the student to the role of management in business. Management is the efficient use of human and capital resources to accomplish organizational objectives. Students will be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. Upon completion of the Business: Management - Level I Certificate students may qualify for an entry-level management position in California's diverse economy.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Apply management concepts and functions.
- · Have developed a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Management - Level II

Business Division

Certificate L0586

This certificate builds upon the Level I Certificate to provide students with proven business tools that will enhance their management careers. Students will be exposed to projects and business simulations that will lead to measurable successes. Business presentations, business planning, team building, conflict resolution, and computer use are core skills developed in this certificate.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|----------------------------------|-------|
| | e Business: Management - Level I | 9 |
| coursework | | |
| PLUS | | |

| Completion of the coursework | e Business: Management - Level II | 9.5 |
|------------------------------|--|------------|
| Total Units | | 18.5 |
| Course Prefix | Course Name | Units |
| Business: Manag | ement - Level I Coursework | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |
| | | 5 |
| Course Prefix | Course Name | Units |
| | Course Name ement - Level II Coursework | - |
| | | - |
| Business: Manag | ement - Level II Coursework | Units |
| Business: Manag BUSM 60 | ement - Level II Coursework Human Relations in Business | Units 3 |

Special Information

Students receiving financial aid need to declare the Level II or Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Define organizational culture, socialization and mentoring.
- Analyze social perception.
- Explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Management - Level III

Business Division

Certificate T0526

Upon completion of the Business: Management - Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. Students will have a strategic perspective of production, marketing, accounting, international business and human resources. Completion of the Business: Management - Level III Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a management career.

| Course Prefix | Course Name | Units |
|--------------------------------|-----------------------------------|-------|
| Completion of th coursework | e Business: Management - Level I | 9 |
| PLUS | | |
| Completion of th coursework | e Business: Management - Level II | 9.5 |
| PLUS | | |

| Completion of tl coursework | he Business: Management - Level III | 11 |
|--------------------------------|---|-------|
| Total Units | | 29.5 |
| Course Prefix | Course Name | Units |
| Business: Mana | gement - Level I Coursework | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Mana | gement - Level II Coursework | |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 62 | Human Resource Management | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 9.5 |
| Course Prefix | Course Name | Units |
| Business: Mana | gement - Level III Coursework | |
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSM 10 | Principles of Continuous Quality Improvement | 3 |
| BUSM 51 | Principles of International Business | 3 |
| Total Units | | 11 |

Special Information

Students receiving financial aid need to declare the Level II or Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Describe the basic accounting system and how it is used to serve business needs.
- · Define and outline the key principles of continuous quality management.
- · Identify how governments influence trade.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Retail Management - Level

Business Division Certificate E0500

This introductory certificate exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management, as well as the latest trends in this fast changing field. This certificate may aid the student's search for an entry-level job in retail management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BUSO 25 | Business Communications | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| FASH 62 | Retail Buying and Merchandising | 3 |
| or BUSS 50 | Retail Store Management and Merchandising | |
| Total Units | | 9.5 |

Special Information

Students receiving financial aid need to declare the Level II or Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Compose an appropriate, effective letter presenting good news, bad news, sales, or persuasive content.
- · Use informative and sales letters to convey information and influence people favorably.
- Develop and deliver a 3-5 minute presentation on a business related topic.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Retail Management - Level Π

Business Division

Certificate L0591

This intermediate certificate builds upon the Level I Certificate to expose students to the various functions of managers in retail positions. Fundamentals of business organization, retail marketing and staffing provides the student a solid foundation from which to build a career in retail management.

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| Completion of th | e Retail Management - Level I coursework | 9.5 |
| PLUS | | |
| Completion of th | e Retail Management - Level II coursework | 12 |
| Total Units | | 21.5 |
| Course Prefix | Course Name | Units |
| Business: Retail | Management - Level I Coursework | |
| BUSO 25 | Business Communications | 3 |
| BUSS 50 | Retail Store Management and Merchandising | 3 |
| or FASH 62 | Retail Buying and Merchandising | |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 9.5 |
| Course Prefix | Course Name | Units |
| Business: Retail | Management - Level II Coursework | |
| BUSA 11 | Fundamentals of Accounting | 3 |

| BUSM 61 | Business Organization and Management | 3 |
|-------------|--------------------------------------|----|
| BUSM 62 | Human Resource Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 12 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Apply management concepts and functions.
- Explain theory and practical application of Equal Employment Opportunity current employment laws.
- · Have developed a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Retail Management - Level

Business Division

Certificate T0521

Students completing the advanced Level III Certificate will have knowledge and practical experience in business communication, leadership and financial controls. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern retail management.

Required Courses

| Course Prefix | Course Name | Units |
|--------------------|--|-------|
| Completion of the | Retail Management - Level I coursework | 9.5 |
| PLUS | | |
| Completion of the | Retail Management - Level II coursework | 12 |
| PLUS | | |
| Completion of the | Retail Management - Level III coursework | 11 |
| Total Units | | 32.5 |
| Course Prefix | Course Name | Units |
| Business: Retail M | lanagement - Level I Coursework | |
| BUSO 25 | Business Communications | 3 |
| BUSS 50 | Retail Store Management and Merchandising | 3 |
| or FASH 62 | Retail Buying and Merchandising | |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 9.5 |
| Course Prefix | Course Name | Units |
| Business: Retail M | Ianagement - Level II Coursework | |
| BUSA 11 | Fundamentals of Accounting | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |

| BUSS 36 | Principles of Marketing | 3 |
|-----------------|--------------------------------------|-------|
| Total Units | | 12 |
| Course Prefix | Course Name | Units |
| Business: Retai | I Management - Level III Coursework | |
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSO 26 | Oral Communications for Business | 3 |
| Total Units | | 11 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Describe the basic accounting system and how it is used to serve business needs.
- · Define organizational culture, socialization and mentoring.
- Apply communication skills in simulated business situations such as conferences and business groups.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Small Business Management - Level I

Business Division

Small Business has been described as the engine of change within the economy. The Business: Small Business Management - Level I Certificate exposes students to the fundamentals of managing and planning a small business. Upon completion students may qualify for an entry-level management position in a small business. Entrepreneurs may use this certificate as a means to plan and develop new business ventures.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------|-------|
| BUSM 20 | Principles of Business | 3 |
| BUSM 66 | Small Business Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

• List and explain the foundations upon which business is built and the economic challenges facing the United States.

Certificate E0529

- · Have developed a working knowledge of marketing terminology.
- · Describe business planning for small business.

Business: Small Business Management - Level II

Business Division

Certificate L0588

The Business: Small Business Management - Level II Certificate provides students with practical small business tools. This certificate focuses on issues such as motivation, teamwork, and leadership skills that lead to enhanced productivity through the development of people. Completion of this certificate will lead to new career opportunities for those currently employed in the small business arena.

Required Courses

| Course Prefix | Course Name | Units |
|---------------------------------------|--|-------|
| Completion of th Level I coursewo | e Business: Small Business Management - rk | 9 |
| PLUS | | |
| Completion of th Level II coursewo | e Business: Small Business Management - ork | 9 |
| Total Units | | 18 |
| Course Prefix | Course Name | Units |
| Business: Small | Business Management - Level I Coursework | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 66 | Small Business Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Small | Business Management - Level II Coursework | |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| Total Units | | 9 |

Special Information

Students receiving financial aid need to declare the Level II Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Define organizational culture, socialization and mentoring.
- Apply management concepts and functions.
- Explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Small Business Management - Level III

Business Division

Certificate T0590

Upon completion of the Business: Small Business Management - Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an everchanging small business environment. Computer skills applicable to small business will be developed. Students will have a strategic perspective across all small business functions. Students will acquire the skills and abilities necessary to build a successful small business career.

Required Courses

| Course Prefix | Course Name | Units |
|--|--|---------------------------|
| Completion of th Level I coursewo | ne Business: Small Business Management - ork | 9 |
| PLUS | | |
| Completion of the Level II coursew | ne Business: Small Business Management - rork | 9 |
| PLUS | | |
| Completion of the Level III coursev | ne Business: Small Business Management - vork | 11.5 |
| Total Units | | 29.5 |
| Course Prefix | Course Name | Units |
| Business: Small | Business Management - Level I Coursework | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 66 | Small Business Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Business: Small | Business Management - Level II Coursework | |
| BUSM 60 | Human Relations in Business | 3 |
| | | 5 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 61 BUSM 62 | Business Organization and Management Human Resource Management | |
| | · · | 3 |
| BUSM 62 | · · | 3 3 |
| BUSM 62 Total Units Course Prefix | Human Resource Management | 3 3 9 |
| BUSM 62 Total Units Course Prefix | Human Resource Management Course Name | 3 3 9 |
| BUSM 62 Total Units Course Prefix Business: Small | Human Resource Management Course Name Business Management - Level III Coursework | 3 3 9 Units |
| BUSM 62 Total Units Course Prefix Business: Small BUSA 7 | Human Resource Management Course Name Business Management - Level III Coursework Principles of Accounting - Financial Principles of Continuous Quality | 3 3 9 Units 5 |

Special Information

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a students will be able to:

- I am able to describe the basic accounting system and how it is used to serve business needs.
- I am able to define and outline the key principles of continuous quality management.
- I am able to contrast quality management theory and previous management thought.

Children's Program: Administration

Business Division

Certificate T0403

The Children's Program Certificate: Administration Specialization is designed for the student who desires general knowledge about Early Childhood Development and skills in administering programs for young children. This certificate meets or exceeds Title 22 education requirements for Center Director. Direct experience with children is highly recommended to complete preparation to be an effective administrator.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|--|-------|
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 10 | Child Growth and Lifespan Development | 3 |
| or CHLD 10H | Child Growth and Lifespan Development- Honors | |
| CHLD 50 | Teaching in a Diverse Society | 3 |
| CHLD 64 | Health, Safety and Nutrition of Children | 3 |
| CHLD 68 | Children With Special Needs | 3 |
| CHLD 71A | Administration of Child Development Programs | 3 |
| CHLD 71B | Management/Marketing/Personnel for ECD Programs | 3 |
| CHLD 75 | Supervising Adults in Early Childhood Settings | 2 |
| CHLD 84 | Guidance and Discipline in Child Development Settings | 1 |
| Choose three cou | rses from the following: ² | 9 |
| CHLD 61 | Language Arts and Art Media for Young Children | |
| CHLD 62 | Music and Motor Development for Young Children | |
| CHLD 63 | Creative Sciencing and Math for Young Children | |
| CHLD 73 | Infant and Toddler Development ¹ | |
| Choose four units | s from the following: | 4 |
| BUSM 66 | Small Business Management | |
| CHLD 72 | Teacher, Parent, and Child Relationships | |
| CHLD 73 | Infant and Toddler Development ¹ | |
| CHLD 83 | Current Issues in Child Development | |
| Total Units | | 43 |

- Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).
- ² Note: Your unit selection should not include any course you have previously taken.

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationships that support and empower families and to involve all families in their children's development and learning.
- Understand theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies are employed.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Children's Program: General - Level I

Business Division Certificate E1326

The Children's Program Certificate: General - Level I is designed for the student who desires general knowledge about the foundations of child development and who has an interest in teaching young children. This certificate meets the Title 22 education requirements for a fully qualified teacher. In Title 5 programs, this certificate meets the educational requirements for an Assistant/Aide position. This certificate includes the identified core courses for the Associate Teacher Child Development Permit. Fifty (50) days of experience is required to complete the permit requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| Total Units | | 12 |

Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Understand and use a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning.
- Be able to evaluate Early care and Education Program regulations, standards, policies according to Title 22 California.
- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that child observation, documentation and other forms of assessment are central to the practices of all early childhood professionals. Students use systematic observations, documentation, and other effective assessment strategies to positively influence the development of every child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationships that support and empower families and to involve all families in their children's development and learning.
- Understand the importance of developmental domains and academic content areas. Students use their knowledge and other resources to design, implement, and evaluate meaningful challenging curricula and environments that promote comprehensive developmental learning outcomes for every child.
- Be able to identify and conduct themselves as members of the early childhood profession. They know ethical guidelines and other professional standards related to early childhood practices. They are life-long, collaborative learners who continue to broaden their knowledge and skills, remain informed about child development issues, and are informed advocates for sound educational practices and policies.
- Be able to apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.

Children's Program: General - Level II

Business Division

Certificate L0412

The Children's Program Certificate: General Level II enhances the student's knowledge beyond Level I, providing additional skills and knowledge working with children. This certificate focuses on safe and healthy environments, working appropriately with children with special needs and the use of appropriate discipline techniques. Completion may lead to salary increase based on Units earned.

Required Courses

| Course Prefix | Course Name | Units |
|--|---|-------|
| Completion of the Level I coursewor | e Children's Program Certificate: General - ·k | 12 |
| PLUS | | |
| Completion of the Level II coursewo | e Children's Program Certificate: General - rk | 7 |
| Total Units | | 19 |

| Course Prefix | Course Name | Units |
|------------------------------|---|------------|
| Children's Progra | am Certificate: General - Level I Coursework | |
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| Total Units | | 12 |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name am Certificate: General - Level II Coursework | Units |
| | | Units 3 |
| Children's Progra | am Certificate: General - Level II Coursework | |
| Children's Progra CHLD 64 | am Certificate: General - Level II Coursework Health, Safety and Nutrition of Children | 3 |

Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Understand and use a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning.
- Be able to evaluate Early Care and Education Program regulations, standards, policies according to Title 22 California.
- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that child observation, documentation and other forms
 of assessment are central to the practices of all early childhood
 professionals. Students use systematic observations, documentation,
 and other effective assessment strategies to positively influence the
 development of every child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationship that support and empower families and to involve all families in their children's development and learning.
- Understand the importance of developmental domains and academic content areas. Students use their knowledge and other resources to design, implement, and evaluate meaningful curriculum.
- Be able to identify and conduct themselves as members of the early childhood profession. They know ethical guidelines and other professional standards related to early childhood education.
- Be able to apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Children's Program: General - Level III

Business Division

Certificate L0409

The Children's Program Certificate: General Level III increases skills in planning for children by focusing on different areas of curriculum. With 175 days of experience and the completion of 16 specific G.E. Units in Areas A, B, C and D, this certificate meets the Title 5 education requirements for a fully qualified teacher.

Required Courses

| Course Prefix | Course Name | Units |
|---|--|----------------------|
| Completion of the Level I coursew | he Children's Program Certificate: General - ork | 12 |
| PLUS | | |
| Completion of t Level II coursew | he Children's Program Certificate: General - vork | 7 |
| PLUS | | |
| Completion of the Level III courses | he Children's Program Certificate: General - vork | 9 |
| Total Units | | 28 |
| Course Prefix | Course Name | Units |
| Children's Progr | am Certificate: General - Level I Coursework | |
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| Total Units | | 12 |
| Course Prefix | Course Name | Units |
| Children's Progr | am Certificate: General - Level II Coursework | |
| CHLD 64 | Health, Safety and Nutrition of Children | |
| ONED ON | | 3 |
| CHLD 68 | Children With Special Needs | 3 3 |
| | • | |
| CHLD 68 | Children With Special Needs Guidance and Discipline in Child | 3 |
| CHLD 68 CHLD 84 | Children With Special Needs Guidance and Discipline in Child | 3 |
| CHLD 68 CHLD 84 Total Units Course Prefix | Children With Special Needs Guidance and Discipline in Child Development Settings | 3 1 7 |
| CHLD 68 CHLD 84 Total Units Course Prefix Children's Progr | Children With Special Needs Guidance and Discipline in Child Development Settings Course Name am Certificate: General - Level III Courses om the following: | 3 1 7 |
| CHLD 68 CHLD 84 Total Units Course Prefix Children's Progr | Children With Special Needs Guidance and Discipline in Child Development Settings Course Name am Certificate: General - Level III Courses | 3 1 7 Units |
| CHLD 68 CHLD 84 Total Units Course Prefix Children's Progr Choose three fro | Children With Special Needs Guidance and Discipline in Child Development Settings Course Name am Certificate: General - Level III Courses om the following: | 3 1 7 Units |
| CHLD 68 CHLD 84 Total Units Course Prefix Children's Progr Choose three fro CHLD 50 | Children With Special Needs Guidance and Discipline in Child Development Settings Course Name am Certificate: General - Level III Courses om the following: Teaching in a Diverse Society Language Arts and Art Media for Young | 3 1 7 Units |

Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Understand and use a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning.
- Be able to evaluate Early care and Education Program regulations, standards, policies according to Title 22 California.
- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that child observation, documentation and other forms
 of assessment are central to the practices of all early childhood
 professionals. Students use systematic observations, documentation,
 and other effective assessment strategies to positively influence the
 development of every child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationship that support and empower families and to involve all families in their children's development and learning.
- Understand the importance of developmental domains and academic content areas. Students use their knowledge and other resources to design, implement, and evaluate meaningful curriculum.
- Be able to identify and conduct themselves as members of the early childhood profession. They know ethical guidelines and other professional standards related to early childhood education. They are life-long, collaborative learners who continue to broaden their knowledge and skills, remain informed about child development issues, and are informed advocates for sound educational practices and policies.
- Be able to apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Children's Program: Teaching

Business Division

Certificate T0405

9

The Children's Program Certificate: Teaching specialization is designed for the student who desires knowledge about Early Childhood Development and skills for teaching young children. This certificate contains two laboratory and one fieldwork component emphasizing working with children. This certificate exceeds Title 22 education requirements for fully qualified teachers. With 175 days of experience and the completion of 16 specified G.E. Areas A, B, C, and D, this certificate meets Title 5 education requirements for a fully qualified teacher.

Total Units

CHLD 73

Children

Infant and Toddler Development

Required Courses

| Required Co | uioco | |
|------------------|--|-------|
| Course Prefix | Course Name | Units |
| Core Courses | | |
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| CHLD 50 | Teaching in a Diverse Society | Э |
| CHLD 64 | Health, Safety and Nutrition of Children | Э |
| CHLD 66 | Early Childhood Development Observation and Assessment | 2 |
| CHLD 66L | Early Childhood Development Observation and Assessment Laboratory ¹ | 1 |
| CHLD 68 | Children With Special Needs | 3 |
| CHLD 69 | Early Childhood Development Field Work Seminar | 2 |
| CHLD 75 | Supervising Adults in Early Childhood Settings | 2 |
| CHLD 84 | Guidance and Discipline in Child Development Settings | 1 |
| CHLD 91 | Early Childhood Development Field Work ¹ | 1 |
| Choose two cou | rses from the following options: | 3 |
| CHLD 67 | Early Childhood Education Practicum | |
| CHLD 67L | Early Childhood Education Practicum Laboratory | |
| or | | |
| CHLD 86 | Infant Toddler Practicum Seminar | |
| CHLD 87 | Infant Toddler Practicum Field Work Experience | |
| Required Electiv | /es | |
| Choose two from | m the following: | 6 |
| CHLD 51 | Early Literacy in Child Development | |
| CHLD 61 | Language Arts and Art Media for Young Children | |
| CHLD 62 | Music and Motor Development for Young Children | |
| CHLD 63 | Creative Sciencing and Math for Young Children | |

Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).

Program Learning Outcomes

Upon successful completion of this program, a student will:

• Understand and use a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect with children and families and positively influence each child's development and learning.

- Be able to evaluate Early care and Education Program regulations, standards, policies according to Title 22 California.
- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that child observation, documentation and other forms
 of assessment are central to the practices of all early childhood
 professionals. Students use systematic observations, documentation,
 and other effective assessment strategies to positively influence the
 development of every child.
- Understand the importance of developmental domains and academic content areas. Students use their knowledge and other resources to design implement, and evaluate meaningful challenging curricula and environments that promotes comprehensive developmental learning outcomes for every child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationships that support and empower families and to involve all families in their children's development and learning.
- Acquire strategies and developmentally appropriate techniques for effective teaching and classroom management.
- Understand theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies to deal with bias are developed.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in C++ Programming

Business Division Certificate E0714

Certificate E0714

The CIS Professional Certificate in C++ Programming prepares students for a career in computer programming. It is intended for returning CIS professionals with several years of experience or current students who have completed several CIS courses. Emphasis is placed on objectoriented programming, database programming and developing a graphical user interface. Students will demonstrate the ability to create business-oriented applications using both the C++ and Visual C++ programming languages; demonstrate effective object-oriented design techniques; write effective program documentation, and demonstrate program troubleshooting skills. Opportunities available after the completion of this certificate include programming for standalone applications, games and databases.

| Course Prefix | Course Name | Units |
|--|--------------------------------------|-------|
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| CISP 31 | Programming in C++ | 3 |
| CISP 31L | Programming in C++ Laboratory | 0.5 |
| CISP 34 | Advanced C++ Programming | 3 |
| CISP 34L | Advanced C++ Programming Laboratory | 0.5 |
| Choose one from the following sequences: | | |

| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory |
|------------------|---|
| CISD 21 & 21L | Database Management - Microsoft SQL Server and Database Management - Microsoft SQL Server Laboratory |
| CISD 31 & 31L | Database Management - Oracle and Database Management - Oracle Laboratory |
| Total Units | |

CIS Program Website (http://www.mtsac.edu/cis)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Create event-driven program, using Windows Forms.
- · Connect C++ program to the database and incorporate SQL statements into C++ code.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Excel and Access

Business Division Certificate E0370

This certificate in Excel and Access is designed to prepare students for working with Microsoft Excel and Access in a business environment. The certificate offers a balanced set of classes that prepares students for using advanced features of both Excel and Access needed by industry. Emphasis is placed on Excel functions as well as Access' relational database techniques. Within Excel, students create a variety of workbooks, utilizing charts, PivotTables, various functions, macros, lists and tables. With Access, students create a variety of objects, including tables, queries, forms, reports and macros, as well as VBA programming. In the VBA for Excel and Access, VBA is used in both Excel and Access to program advanced functionality that may be needed within these applications. Much attention is paid to design principles, including normalization, securing databases, and other current topics in the database field. Students will demonstrate understanding of the topics via projects using various real-world workbooks and databases. Opportunities available after the completion of this certificate include, but are not limited to, administrative aides, database administrators, designers and developers, and database systems analysts. In addition, courses help prepare students to take the Microsoft MOS certification exam in Excel and Access.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISB 21 | Microsoft Excel | 3 |
| CISD 11 | Database Management - Microsoft Access | 3 |
| CISD 11L | Database Management - Microsoft Access Laboratory | 0.5 |
| CISD 14 | VBA for Excel and Access | 3 |

| CISD 14L | Visual Basic for Applications (VBA) Excel and Access Lab | 0.5 |
|-------------|---|-----|
| CISD 40 | Database Design | 3 |
| Total Units | | 13 |

CIS Program Website (http://www.mtsac.edu/cis)

Guided Pathway of Study (http://www.mtsac.edu/instruction)

Program Learning Outcomes

13

Upon successful completion of this program, a student will be able to:

- · Apply appropriate Visual Basic for Application code (VBA) to update Access table data.
- · Use embedded SQL statements within VBA procedures to create and run ad hoc gueries for users.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Java Programming

Business Division

Certificate E0700

The Java programming certificate is designed to prepare students for a career in computer programming. The certificate offers a balanced set of classes that provides students with client, server, and database programming skills required by industry. Emphasis is placed on objectoriented programming applications Web-based applets configuring an Apache Tomcat servlet, implementing JavaServer Pages, JavaBeans, and NetBeans for reusable software components. Students will demonstrate the ability to design and implement a Java application that will contain the front end user interface and back end database. Opportunities available after the completion of this certificate include programming for systems, mobile devices, device drivers and software engineering.

Required Courses

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| CISP 21 | Programming in Java | 3 |
| CISP 21L | Programming in Java Laboratory | 0.5 |
| CISP 24 | Advanced Java Programming | 3 |
| CISP 24L | Advanced Java Laboratory | 0.5 |
| Choose one from | n the following sequences: | 3.5 |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISD 21 & 21L | Database Management - Microsoft SQL Server and Database Management - Microsoft SQL Server Laboratory | |
| CISD 31 & 31L | Database Management - Oracle and Database Management - Oracle Laboratory | |
| Total Units | | 13 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Develop a dynamic web page programming Java Server Pages.
- Create an object oriented program that will use remote method invocation using the Java programming Language.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in LINUX

Business Division Certificate E0796

The CIS Certificate in Linux prepares students to install, manage, program and troubleshoot Linux operating systems. The certificate offers a balanced set of classes that prepares students to create and operate Linux workstations, servers and networks used by industry. Emphasis is placed on configuring a Linux distribution to create workstations with client applications; email, file, FTP, DNS and other servers; and routers, firewalls and other network services. Special attention is given to security concepts and tools and their implementation in a Linux system. Students will also learn to configure and install an Apache web server in a Linux system to access a MySQL database using PHP programs. Opportunities available after the completion of this certificate include system or network administration, web server, and database programmers. The certificate covers the major topics of an industry standard certification exam for Linux.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISN 31 | Linux Operating System | 3 |
| CISN 31L | Linux Operating System Laboratory | 0.5 |
| CISN 34 | Linux Networking and Security | 3 |
| CISN 34L | Linux Networking and Security Laboratory | 0.5 |
| CISW 31 | Secure Web Servers | 3 |
| CISW 31L | Secure Web Servers Laboratory | 0.5 |
| Total Units | | 10.5 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Know how to install a SAMBA server in a Linux computer.
- Know how to install an Apache web server in a Linux computer and access its web pages from another computer.
- Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Network Security

Business Division Certificate E0721

The CIS Professional Certificate in Network Security program is designed to prepare students for a career in the computer network security industry. The certificate offers a balanced set of classes that prepare students to design, implement, manage and secure the heterogeneous corporate network. The security management courses emphasize firewall security appliances, network protocol analysis, Linux network, Snort intrusion detection, intrusion prevention, and vulnerability management. Students will acquire the skills to utilize network protocol analyzers, to troubleshoot network problems, deploy intrusion prevention systems, configure firewall security appliances and Virtual Private Network (VPN), and assess network vulnerabilities and implement countermeasures. Individual courses will help students prepare for industry certification exams such as Certify Ethical Hacker (CEH), Cisco Firewall Specialist, and Cisco IPS Specialist. Opportunities available upon completion of the certificate program include Network Security Analyst, Junior Network Security Engineer, Network Vulnerability Management, and Network Security Architect.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| CISS 21 | Network Vulnerabilities and | 3 |
| | Countermeasures | |
| CISS 21L | Network Vulnerabilities and Countermeasures Laboratory | 0.5 |
| CISS 23 | Network Analysis, Intrusion Detection/ Prevention Systems | 3 |
| CISS 23L | Network Analysis, Intrusion Detection/ Prevention Systems Laboratory | 0.5 |
| CISS 25 | Network Security and Firewalls | 3 |
| CISS 25L | Network Security and Firewalls Laboratory | 0.5 |
| CISS 27 | Cyber Defense | 1 |
| Total Units | | 11.5 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Configure and install a firewall.
- · Implement a secured translation for service hosting through firewall.
- Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Networking

Business Division Certificate E0716

The CIS Professional Certificate in Networking program is designed to prepare students for a career in the computer networking industry. The certificate offers a balanced set of classes that prepare students to design, implement, and manage the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data communications. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, Linux Networking, Cisco routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will help students prepare for related industry certification exams such as Network+, Microsoft MCITP, Cisco CCNA and Red Hat RHCSA. Opportunities available upon completion of this certificate include entrylevel and mid-management positions in Network Administration.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| CISN 11 | Telecommunications Networking | 3 |
| CISN 11L | Telecommunications/Networking Laboratory | 0.5 |
| CISN 24 | Window Server Network and Security Administration | 3 |
| CISN 24L | Window Server Network and Security Administration Laboratory | 0.5 |
| CISN 34 | Linux Networking and Security | 3 |
| CISN 34L | Linux Networking and Security Laboratory | 0.5 |
| CISN 51 | Cisco CCNA Networking and Routing | 3 |
| CISN 51L | Cisco CCNA Networking and Routing Laboratory | 0.5 |
| Total Units | | 14 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Configure and setup static routing.
- · Implement VLAN and VLAN routing.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Object-Oriented Design & Programming

Business Division

Certificate E0723

The CIS Professional Certificate in Object-Oriented Design and Programming prepares students for a career in computer programming. The certificate offers a balanced set of classes that provides students the skills to design and develop business applications using the Unified Modeling Language (UML) and an object-oriented programming language. Students will demonstrate the ability to design and implement business environment applications that will contain the front end user interface and back end database. Students in this program select one of the following three programming language concentrations: Visual Basic.NET, Java or C++. Career opportunities available after the completion of this certificate include programming for systems, mobile devices, device drivers and software engineering.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| Core Courses | | |
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| Choose one from | n the following programming tracks: | 7 |
| Visual Basic.NE | т | |
| CISP 11 | Programming in Visual Basic | |
| CISP 11L | Programming in Visual Basic Laboratory | |
| CISP 14 | Advanced Visual Basic .NET | |
| CISP 14L | Advanced Visual Basic.NET Laboratory | |
| leve | | |

| CISP 21 | Programming in Java | |
|----------------|-------------------------------------|-----|
| CISP 21L | Programming in Java Laboratory | |
| CISP 24 | Advanced Java Programming | |
| CISP 24L | Advanced Java Laboratory | |
| C++ | | |
| CISP 31 | Programming in C++ | |
| CISP 31L | Programming in C++ Laboratory | |
| CISP 34 | Advanced C++ Programming | |
| CISP 34L | Advanced C++ Programming Laboratory | |
| Total Units | | 9.5 |
| | | |
| CIS Program We | ebsite (http://www.mtsac.edu/cis) | |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Write valid decision statements (if/else constructs) in the C#.NET programming language.
- Create an object oriented program using multiple classes in the C#.NET programming language.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in SQL

Business Division

Certificate E0730

The SQL Server certificate is designed to prepare students for a career in database administration using SQL Server. The certificate offers a balanced set of classes that provides students skills in database design, data retrieval and database programming. Emphasis is placed on building databases; retrieving data; creating and maintaining database objects; writing stored procedures, functions and triggers for reusable software components. Students will demonstrate the ability to view and update databases and develop programs to automate database functions. Opportunities available after the completion of this certificate include SQL Server report writer, SQL Server developer and software engineer.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISD 21 | Database Management - Microsoft SQL Server | 3 |
| CISD 21L | Database Management - Microsoft SQL Server Laboratory | 0.5 |
| CISD 31 | Database Management - Oracle | 3 |
| CISD 31L | Database Management - Oracle Laboratory | 0.5 |
| CISD 40 | Database Design | 3 |
| Total Units | | 10 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- · Apply normalization rules to database design.
- Create E-R (Entity Relationship) and UML (Unified Modeling Language) diagrams for a given database scenario.

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Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Telecommunications

Business Division Certificate E0718

The CIS Professional Certificate in Telecommunications program is designed to prepare students for a career in the computer networking industry. The certificate offers a balanced set of classes that prepare students to design, implement and manage the heterogeneous corporate network. The network administration courses emphasize network operating systems, network infrastructure and data communications. Students will acquire the skills to install and administer a Windows network, Virtualization, Active Directory, group policy, file system security, DNS, DHCP, Cisco routers, switches, network infrastructure, access control list, Virtual LAN (VLAN) and VLAN routing. Individual courses will assist students in preparing for industry certification exams such as Network+, Microsoft MCITP and Cisco CCNA. Opportunities available upon completion of the certificate program include entry-level and midmanagement positions in Network Administration.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| CISN 11 | Telecommunications Networking | 3 |
| CISN 11L | Telecommunications/Networking Laboratory | 0.5 |
| CISN 24 | Window Server Network and Security Administration | 3 |
| CISN 24L | Window Server Network and Security Administration Laboratory | 0.5 |
| CISN 51 | Cisco CCNA Networking and Routing | 3 |
| CISN 51L | Cisco CCNA Networking and Routing Laboratory | 0.5 |
| Total Units | | 10.5 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Configure and setup static routing.
- Able to implement VLAN and VLAN routing.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

CIS Professional Certificate in Visual Basic Programming

Business Division

Certificate E0719

The CIS Professional Certificate in Visual Basic Programming is designed to prepare students for a career in computer programming. The certificate offers a balanced set of classes that provides students client, server and database programming skills required by industry. Emphasis is placed on object-oriented programming applications, web based applications and implementing ASP.NET, ADO.NET and .NET Framework for reusable software components. Students will demonstrate the ability to design and implement a Visual Basic application that contains the client interface, the server implementation and the database. Opportunities available after the completion of this certificate include programming for systems, mobile applications, integration of systems and web applications.

Required Courses

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| CISP 11 | Programming in Visual Basic | 3 |
| CISP 11L | Programming in Visual Basic Laboratory | 0.5 |
| CISP 14 | Advanced Visual Basic .NET | 3 |
| CISP 14L | Advanced Visual Basic.NET Laboratory | 0.5 |
| Choose one from | the following combinations: | 3.5 |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISD 21 & 21L | Database Management - Microsoft SQL Server and Database Management - Microsoft SQL Server Laboratory | |
| CISD 31 & 31L | Database Management - Oracle and Database Management - Oracle Laboratory | |

Total Units

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Update a SQL Server database.
- Display data from related database tables.
- · Create a web site that accesses data from a database.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Web Programming

Business Division

Certificate E0713

The CIS Professional Certificate in Web Programming provides students the programming skills to create effective web pages and web sites. The certificate offers a balanced set of classes that prepares students to design, debug and implement both client-side and server-side web programs. Emphasis is placed on acquiring programming skills in various web programming, scripting or markup languages such as JavaScript, HTML, DHTML, XHTML, XML, CSS, ASP.NET, AJAX, SQL and Perl. Students will also learn to configure and install an Apache web server in a Linux or Windows system and access a MySQL database using PHP programs. Opportunities available after the completion of this certificate include web programming or web and database server administration.

Required Courses

| - Course Prefix | Course Name | Units |
|--------------------|--|-------|
| CISW 17 | HTML, CSS & JavaScript Programming | 3 |
| CISW 31 | Secure Web Servers | 3 |
| CISW 31L | Secure Web Servers Laboratory | 0.5 |
| Choose one of th | e following combinations: | 3.5 |
| CISW 21 & 21L | Secure Web Programming with ASP.NET and Secure Web Programming with ASP.NET Laboratory | |
| CISW 24 & 24L | Secure Server Side Web Programming and Secure Server Side Web Programming Laboratory | |
| Total Units | | 10 |

CIS Program Website (http://www.mtsac.edu/cis)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Know how to install and configure a secure web server.
- · Know how to access a database from a program in a web server.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

CIS Professional Certificate in Windows Operating System Administration

Business Division

Certificate E0720

The CIS Professional Certificate in Windows Operating System Administration is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This certificate will prepare students for technical support jobs for companies using Windows operating systems. The certificate will provide students the skills to install, manage/administer and troubleshoot Microsoft Windows workstations and Microsoft server operating systems. The courses in this certificate cover the major topics of industry standard certification exams. Opportunities available upon completion of the certificate program include entry-level and mid-level help desk and Windows Administrative positions.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| CISN 21 | Windows Operating System | 3 |
| CISN 24 | Window Server Network and Security Administration | 3 |
| CISN 24L | Window Server Network and Security Administration Laboratory | 0.5 |
| Total Units | | 6.5 |

Total Units

CIS Program Website (http://www.mtsac.edu/cis)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Configure and install Windows Active Directory.
- · Implement Windows file system security.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Coaching

Certificate E0804

This certificate program is intended to prepare students for employment as high school (walk-on) coaches, but is appropriate for coaches at various levels.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------|-------|
| KIN 13 | Sports Officiating | 3 |
| KIN 34 | Fitness for Living | 3 |
| KIN 44 | Theory of Coaching | 3 |
| KIN 81 | Work Experience for Coaching | 2 |
| Total Units | | 11 |

Exit Requirement: First Aid and CPR Certification Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/ kinesiology)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Develop and apply their coaching philosophy.
- · Create practice plans using the 5 components of fitness.
- · Communicate and apply their knowledge and understanding of the "rules of game" in their chosen sport.
- · Create full season training curriculum using short and long-term goal setting.
- · Demonstrate effective communication skills and interpersonal skills with their athletes, parents, other coaches and co-workers, officials, community members and the media.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computed Tomography

Technology and Health Division

Certificate E0397 The Computed Tomography (CT) program at Mt. SAC is a two semester certificate program open to Technologists who possess a valid California Certified Radiologic Technologist (CRT) license and are certified and registered by the American Registry of Radiologic Technologists (ARRT) in one of the following supporting disciplines: Radiologic Technology, Nuclear Medicine Technology Certification Board (or NMTCB), or Radiation Therapy. The program provides a complete educational experience for registered Radiologic Technologists (RT's) who wish to expand their skills into the study in the theory and practice of CT. Students will have the opportunity to learn and develop competence in patient care, communication skills, critical thinking, and technical skills that will prepare the student to become a competent entry level CT Technologist.

The program curriculum is designed to meet the CT educational and clinical training requirements set forth by the ARRT. The educational standards established by the American Society of Radiologic Technologists (ASRT) are also incorporated into the curriculum. Educational activities include lecture, discussions, group activities, and hands-on clinical training at a clinical site. The program includes:

- ARRT clinical experience requirements and content specifications
- ARRT 16 hour structured education requirement
- Course work in cross sectional anatomy, pathology, patient care and safety, CT procedures, equipment, image evaluation, instrumentation, technique, physics, quality assurance, and quality control.

Clinical training will be conducted at affiliated healthcare institutions and there is no guarantee the student will be placed close to home. Hours for clinical training are arranged with the clinical site (days and times will vary depending on the site). No arrangements for part time status are available.

Applicants will be required to complete a background check, physical, and provide proof of immunizations during the admissions process. Upon successful completion of the program, the student will receive a Certificate of Completion from Mt. San Antonio College. Technologist certified and registered by ARRT in the appropriate disciplines will be eligible to sit for the ARRT Computed Tomography certification examination.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| RAD 7A | Computed Tomography Clinical Experience 7A | 2 |
| RAD 7B | Computed Tomography Clinical Experience 7B | 7 |
| RAD 70 | Computed Tomography Sectional Anatomy and Pathology | 2 |
| RAD 71 | Computed Tomography Procedures and Patient Care | 3 |
| RAD 72 | Computed Tomography Physics and Instrumentation | 3 |
| Total Units | | 17 |

Admission Process

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

1. Apply to Mt. San Antonio College and be accepted as a student.

 Students transferring from other colleges must have their official transcript sent to Mt. SAC's Admissions and Records Office. 2. Complete and submit a Mt. SAC Computed Tomography Program Application to the Technology and Health Division Office Bldg. 28/101E, (909) 274-4750. All applications are dated upon receipt.

- Applicants must be Certified and Registered by the ARRT in Radiologic Technology, Nuclear Medicine, or Radiation Therapy. Provide a copy of current ARRT certification with application.
- Applicants must have a current California Radiologic Technology (CRT) Certificate. Provide a copy of current CRT certification with application.
- ARRT and CRT certification must be maintained throughout program
- Applicants must possess a valid Social Security Card. This is a licensed profession, and a valid Social Security Number is required to obtain national licensure.

3. Be certified in Cardiopulmonary Resuscitation (CPR). CPR certification must be maintained throughout the program. Provide a copy of current CPR certification with application.

• CPR level required for the program: American Heart Association: BLS Healthcare Provider, valid 2 years

4. Complete health physical, required tests, and immunizations prior to program admission. Provide documentation of completion.

- Physical examination forms are provided with provisional admission letter and are also available in the Technology and Health Division in Building 28A, Room 101E.
- Applicants must have a drug test prior to program admission
- Applicants will be given instruction on drug testing procedures upon provisional admission to the program and are responsible for the cost of the drug test.
- Drug testing is offered at the Student Health Center at Mt. SAC.
- If an applicant is denied access by a clinical site due to drug screening results, and as such, cannot meet program requirements, the applicant will not be admitted into the program

5. Acceptable background check: All applicants will be required to complete a background check prior to program admission (a valid Social Security number is required to complete this process). The clinical affiliate determines whether an applicant can participate in the clinical rotation based upon the results of the background check.

- Applicants will be given information on how to complete the background check process upon provisional admission to the program.
- Background check is to be completed at www.castlebranch.com (https:// www.castlebranch.com)
- Background checks will be reviewed by the applicant's clinical affiliate. Upon review, if the applicant is deemed unacceptable for clinical placement, the program will not pursue an alternate clinical placement. If an applicant is denied access by a clinical site because of the background check, and as a result, cannot meet program

requirements, the applicant will not be admitted into the program. The clinical rotation site decision is final.

6. Complete all other clinical site requirements if applicable and submit documentation

7. California Venipuncture Certification is highly recommended. Submit copy of certification if applicable.

8. Attend a mandatory orientation meeting with the Radiologic Technology Department. You will be contacted with date and time of orientation once you have been provisionally admitted.

Selection

Selection of applicants is lottery based. Applications are put into a pool and selected through a computerized, random process. Those who are not admitted each term are not placed on a waitlist. Applicants can reapply the following year.

Program Completion Requirements

All students in the Computed Tomography Program MUST complete all the course requirements before a certificate documenting completion will be awarded. This certificate documents completion of the education and clinical requirements to apply for the CT registry exam through the ARRT.

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agent, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- Subject to many interruptions
- · Requires decisions/actions critical to patient safety
- Exposed to products containing latex

Required Skills and Physical Abilities

- 1. Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
- 2. Lift arms above the head to move the x-ray tube assembly.
- 3. Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
- 4. Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
- Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
- 6. Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.

- 7. Function adequately under stressful situations related to technical and procedural standards of patient care situations.
- Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from individuals remote from the location of the student.
- 9. Speak English clearly enough to explain and direct procedural information to patients, and to communicate with physicians, technical staff, and faculty.
- 10. Calculate and select proper technical exposure factors according to the individual needs of the patient's condition and requirements of the procedure with speed and accuracy.
- 11. View and evaluate the recorded images of a radiograph for the purpose of identifying proper patient positioning, accurate procedural sequencing, proper exposure (and/or "s" number), and other established technical qualities.

English Language Skills

Although proficiency in English is not a criterion for admission into the Radiologic Technology Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · develop workforce readiness skills
- · apply accurate positioning skills and provide appropriate patient care
- · select optimal technical factors
- · utilize appropriate radiation protection and ALARA principles
- demonstrate academic and technical competence as an entry-level CT Technologists
- · communicate effectively with patients, clinical staff, and peers
- demonstrate effective written and verbal communication skills in didactic and clinical settings
- use critical thinking skills in both routine and non-routine clinical situations
- adapt standard procedures for non-routine patients
- analyze images to determine diagnostic quality and make modifications as needed
- · exhibit professional work ethic, behavior, and attitude
- · abide by the ASRT Code of Ethics
- · use professional judgment when working with patients and others
- · identify the advantage of belonging to professional organizations
- understand the need for continued professional development and growth
- · participate in professional development activities
- · pass the ARRT certification exam in CT
- secure employment as a CT Technologist within one year of program completion

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer and Networking Technology - Level I

Technology and Health Division Certificate L0795 The Computer and Networking Technology Level I and II certificate programs prepare students to become computer and networking service technicians. Courses required for the Level I certificate provide foundations in basic electricity and electronics, operating systems, computer service and troubleshooting, and preparation for the A+ certification examination sponsored by CompTIA and offered at testing centers throughout the country. Level I certificate students learn to install, configure, maintain, troubleshoot, and repair computers and networks. With further preparation leading to the Level II certificate, students will ready themselves for the CompTIA Network+, Server+, and Security+ certification tests. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|---------|
| CNET 50 | PC Servicing | 4 |
| CNET 52 | PC Operating Systems | 4 |
| CNET 54 | PC Troubleshooting | 4 |
| CNET 60 | A+ Certification Preparation | 2 |
| ELEC 11 | Technical Applications in Microcomputers | 3-3.5 |
| or CISB 15 | Microcomputer Applications | |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 56 | Digital Electronics | 4 |
| Total Units | | 29-29.5 |

Electronics (http://www.mtsac.edu/cis) and Computer Technology Website (http://www.mtsac.edu/electronics)

Guided Pathway of Study (http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Apply knowledge of fundamental electronics principles, including voltage, current, and signal levels, to the analysis and troubleshooting of computers and data-communications networks.
- Apply knowledge of computers and their components to the development and implementation of interconnected systems of computers.
- Apply knowledge of computer technology, with an emphasis on hardware, to the development and deployment of complete computer networks.
- Demonstrate an understanding of the physical and logical characteristics needed to support and secure network and server environments.
- Function effectively as a member of a technical team including documenting work, writing clearly and appropriately in an Information Technology context, respecting user data, and considering the ethical consequences of decisions.
- Articulate knowledge of the CompTIA certification processes, including potential exam content, philosophy, and test taking and study strategies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer and Networking Technology - Level II

Technology and Health Division Certificate T0726

The Computer and Networking Technology Level I and II certificate programs prepare students to become computer and networking service technicians. Courses required for the Level I certificate provide foundations in basic electricity and electronics, operating systems, computer service and troubleshooting, and preparation for the A+ certification examination sponsored by CompTIA and offered at testing centers throughout the country. In addition to the Level I certificate requirements, students seeking the Level II certificate cover computer networks, servers, and customer relations, and will take preparatory courses for the CompTIA Network+, Server+, and Security+ certification exams. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields.

Required Courses

| Course Prefix | Course Name | Units |
|--|--|---------|
| Completion of the Level I coursewor | e Computer and Networking Technology - rk | 29-29.5 |
| PLUS | | |
| Completion of the Level II coursewo | e Computer and Networking Technology - rk | 16 |
| Total Units | | 45-45.5 |
| Course Prefix | Course Name | Units |
| Computer and Ne | etworking Technology - Level I Coursework | |
| CNET 50 | PC Servicing | 4 |
| CNET 52 | PC Operating Systems | 4 |
| CNET 54 | PC Troubleshooting | 4 |
| CNET 60 | A+ Certification Preparation | 2 |
| ELEC 11 | Technical Applications in Microcomputers | 3-3.5 |
| or CISB 15 | Microcomputer Applications | |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 56 | Digital Electronics | 4 |
| Total Units | | 29-29.5 |
| Course Prefix | Course Name | Units |
| Computer and Ne | etworking Technology - Level II Coursework | |
| CNET 56 | Computer Networks | 4 |
| CNET 58 | Server Systems | 4 |
| CNET 62 | Network+ Certification Preparation | 2 |
| CNET 64 | Server+ Certification Preparation | 2 |
| CNET 66 | Security+ Certification Preparation | 2 |
| TECH 60 | Customer Relations for the Technician | 2 |

16

Total Units

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|------------------------------------|-------|
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 74 | Microcontroller Systems | 4 |
| EST 54 | Cabling and Wiring Standards | 4 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Guided Pathway of Study (http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Apply knowledge of fundamental electronics principles, including voltage, current, and signal levels, to the analysis and troubleshooting of computers and data-communications networks.
- Apply knowledge of computers and their components to the development and implementation of interconnected systems of computers.
- Apply knowledge of computer technology, with an emphasis on hardware, to the development and deployment of complete computer networks.
- Demonstrate an understanding of the physical and logical characteristics needed to support and secure network and server environments.
- Function effectively as a member of a technical team including documenting work, writing clearly and appropriately in an Information Technology context, respecting user data, and considering the ethical consequences of decisions.
- Articulate knowledge of the CompTIA certification processes, including potential exam content, philosophy, and test taking and study strategies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer Systems Technology

Technology and Health Division Certificate L0924

In addition to courses in electronics fundamentals, the Computer Systems Technology certificate encompasses advanced coursework in computer systems circuitry, including microcontrollers and microprocessors. This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.E. 4th Class Technician license.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| ELEC 12 | Computer Simulation and Troubleshooting | 2 |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |

| ELEC 50B | Electronic Circuits (AC) | 4 |
|-------------|---------------------------------------|----|
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 56 | Digital Electronics | 4 |
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| ELEC 74 | Microcontroller Systems | 4 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 30 |

Electronics and Computer Technology Website (http://www.mtsac.edu/electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- be able to employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).
- demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.
- in advanced courses, connect concepts learned in introductory courses to more general principles applicable in the employment context.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Consumer Relations

Business Division

Certificate B0326

This program provides semi-professional training for those who seek immediate Consumer Relations employment in non-profit agencies, government, education, or business such as utilities, telecommunications, and finance. Positions include, but are not limited to: consumer affairs representatives, client related government jobs, and community advocates.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| FCS 41 | Life Management | 3 |
| FCS 80 | Personal Financial Planning | 3 |
| or BUSA 71 | Personal Financial Planning | |
| FCS 51 | Consumerism: The Movement, its Impact, and Issues | 3 |
| BUSO 25 | Business Communications | 3 |
| BUSO 26 | Oral Communications for Business | 3 |
| Total Units | | 15 |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate meaningful self-evaluation related to increasing their lifelong personal well-being.
- Identify, prioritize, and evaluate their personal and personal financial goals.
- · Identify consumer related laws and government agencies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Culinary Arts

Business Division

Certificate E0373

The program prepares students for entry level career opportunities in restaurants, catering, hotels, theme parks and other food service businesses. Students gain practical training in the use of commercial equipment and acquire the skills necessary to be successful in the field of culinary arts such as: knife skills, food production, presentation, menu development, portion control, and nutrition. Students who successfully complete the requirements for this certificate will also earn a nationally recognized Food Protection Manager Certification.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| HRM 52 | Food Safety and Sanitation | 1.5 |
| HRM 54 | Basic Cooking Techniques | 3 |
| HRM 81 | Garde Manger | 3 |
| HRM 82 | Baking and Pastry | 3 |
| HRM 83 | International Cuisines | 3 |
| Choose one cour | se from the following: | 3 |
| NF 10 | Nutrition for Health and Wellness | |
| NF 20 | Principles of Food with Laboratory | |
| NF 25 | Introduction to Nutrition Science | |
| or NF 25H | Introduction to Nutrition Science - Honors | |
| NF 40 | Healthy American Cuisine | |
| Total Units | | 16.5 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Plan a food production schedule and assemble the tools, equipment, and ingredients required to produce a recipe in an organized and efficient manner.
- Recipe knowledge, accuracy and execution: Follow recipe procedures to produce food at the appropriate temperature, consistency, texture, flavor, and in a timely manner.
- · Determine the presence of foodborne-illness outbreak.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Dance Teacher

Certificate L0355

The Dance Teacher Certificate is intended to prepare students for careers as dance instructors in private dance studios, recreation centers, and K-12 dance programs. Focus is on the genres of Ballet, Jazz and Modern Dance with pedagogical principles that can be applied to other dance forms. This certificate may aid the student's search for an entry-level job in the dance teaching world.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| DN-T 20 | History and Appreciation of Dance | 3 |
| DN-T 38 | Dance Teaching Methods | 3 |
| DNCE 2B | Ballet II | 1 |
| DNCE 4 | Choreography | 0.5 |
| DNCE 11A | Social Dance Forms I ¹ | 1 |
| DNCE 12B | Modern II ¹ | 1 |
| DNCE 14B | Jazz II ¹ | 1 |
| DNCE 18A | Tap I | 0.5 |
| DNCE 24 | Dance Production | 1.5 |
| DNCE 32 | Commercial Dance | 0.5 |
| DNCE 33 | Improvisation | 0.5 |
| DNCE 34 | Dance Directives | 0.5 |
| DNCE 35 | Repertory | 2 |
| DNCE 39A | Alignment and Correctives I | 0.5 |
| KIN 24 | Applied Kinesiology | 2 |
| Total Units | | 18.5 |

Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/kinesiology)

Program Learning Objectives

Upon successful completion of this program, a students will be able to:

- Teach creative and technical dance skills using correct body alignment, muscle coordination and dance terminology of various dance genres.
- Present a comprehensive job portfolio that includes a cover letter, resume, sample lesson plans, teaching analogies and a reel of choreography.
- Develop an articulate, original choreographic voice by expressing themselves creatively through the production of dance composition and performance.
- Attain an intermediate level of proficiency in contemporary dance techniques.
- Acquire a broad understanding and appreciation of historical and cultural values expressed through dance.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Dance Teacher Skills Certificate

Certificate E0313

The Dance Teacher Certificate is intended to prepare students for careers as dance instructors in private dance studios, recreation centers and K-12 dance programs. Focus is on the genres of Ballet, Jazz and Modern Dance with pedagogical principles that can be applied to other dance forms. This certificate may aid the student's search for an entry-level job in the dance teaching world.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| DNCE 2B | Ballet II | 0.5 |
| DNCE 4 | Choreography | 0.5 |
| DNCE 12B | Modern II | 0.5 |
| DNCE 14B | Jazz II | 0.5 |
| DNCE 24 | Dance Production | 1 |
| DNCE 33 | Improvisation | 0.5 |
| DNCE 35 | Repertory | 2 |
| DNCE 39A | Alignment and Correctives I | 0.5 |
| DN-T 20 | History and Appreciation of Dance | 3 |
| DN-T 38 | Dance Teaching Methods | 3 |
| KIN 24 | Applied Kinesiology | 2 |
| Total Units | | 14 |

Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/kinesiology)

Program Learning Outcomes

Upon successful completion of this program, a students will be able to:

- Teach creative and technical dance skills using correct body alignment, muscle coordination and dance terminology of various dance genres.
- Present a comprehensive job portfolio that includes a cover letter, resume, sample lesson plans, teaching analogies and a reel of choreography.
- Develop an articulate, original choreographic voice by expressing themselves creatively through the production of dance composition and performance.
- Attain an intermediate level of proficiency in contemporary dance techniques.
- Acquire a broad understanding and appreciation of historical and cultural values expressed through dance.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Domestic Violence Certification

Technology and Health Division

Certificate 00366

Overview of domestic violence and its ramifications. Examines the relationship between domestic violence and substance abuse. Meets state training requirements to work or volunteer in domestic violence agency as mandated by the State of California Evidence Code 1037.1 and Penal Code Section 1203.037. Certificate issued.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------|-------|
| AD 4 | Issues in Domestic Violence | 3 |
| Total Units | | 3 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronic Assembly and Fabrication

Technology and Health Division

Certificate E0929

The Electronic Assembly and Fabrication Certificate is intended to prepare students to enter the electronics field as assembly and fabrication technicians. The program provides a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for both through-hole and surface mount devices (SMD). Included are skills for various types of cabling and connections.

Electronic fundamentals (test instruments, basic electrical measurements, color-codes, schematic symbols, device outlines, etc.) are provided in the introductory courses. Complete surface mount technology (SMT) skills are taught with a culmination in the IPC7711/IPC7721 rework and repair of electronic assemblies certification. Recertification is required every two years.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| or EST 50 | Electrical Fundamentals for Cable Installations | |
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| ELEC 62 | Advanced Surface Mount Assembly and Rework | 2 |
| Total Units | | 13 |

Total Units

Electronics and Computer Technology Website (http://www.mtsac.edu/electronics)

Program Learning Outcomes

Upon successful completion of this course, a student will be able to:

- design, fabricate, and populate a through-hole circuit board.
- communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronics and Computer -Engineering Technology

Technology and Health Division Certificate T0906

The Electronics and Computer Engineering Technology (ECET) certificate program prepares individuals either for initial employment or for enhancement of existing skills in the electronics field, or for transfer into B.S. programs in Electronics Technology or Industrial Technology offered in the CSU system. Required courses for the certificate — many of which articulate directly to their equivalents at the CSUs are the same as for the ECET A.S. degree program except for the college General Education requirement. In addition to exposing students to core topics such as components and circuits, the program includes coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls. Nearly all laboratories have new, state-of-the-art equipment to provide students with quality, hands-on learning experiences.

Students completing the ECET certificate program possess ample skills to make them versatile employees. Typical technician-level job classifications include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician. All students completing the certificate program are automatically eligible to receive, without further examination, the 4th class technician license from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.).

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| ELEC 12 | Computer Simulation and Troubleshooting | 2 |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 53 | Communications Systems | 4 |
| ELEC 54A | Industrial Electronics | 4 |
| ELEC 54B | Industrial Electronic Systems | 3 |
| ELEC 55 | Microwave Communications | 4 |
| ELEC 56 | Digital Electronics | 4 |
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| ELEC 74 | Microcontroller Systems | 4 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 45 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISP 11 | Programming in Visual Basic | 3 |
| ELEC 62 | Advanced Surface Mount Assembly and Rework | 2 |
| ELEC 76 | FCC General Radiotelephone Operator License Preparation | 2 |
| PHYS 2AG | General Physics | 4 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Apply knowledge of electronic principles to the areas of communications, industrial electronics, and microcontrollers.
- Demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- Quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- Communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.
- In advanced courses, connect concepts learned in introductory courses to more general principles applicable in the employment context.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronics Communications

Technology and Health Division Certificate T0904

In addition to courses in electronics fundamentals, the Electronics Communications certificate program encompasses the study of both wire-based and wireless forms of analog and digital communications systems. Among the topics covered are amplitude and frequency modulation, multiplexing, antennas, transmission lines, and radio-wave propagation, as well as microwave systems, including radar and satellite operations.

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.E. 4th Class Technician license.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| ELEC 12 | Computer Simulation and Troubleshooting | 2 |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 53 | Communications Systems | 4 |
| ELEC 55 | Microwave Communications | 4 |
| ELEC 56 | Digital Electronics | 4 |
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| ELEC 76 | FCC General Radiotelephone Operator License Preparation | 2 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 36 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- be able to employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).
- demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.

 in advanced courses, connect concepts learned in introductory courses to more general principles applicable in the employment context.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronics: Industrial Systems

Technology and Health Division Certificate T0908

In addition to courses in electronics fundamentals, the Industrial Systems curriculum encompasses advanced coursework in industrial electronics, including electronic devices for industrial and motor controls. The curriculum culminates in the study of programmable logic controls (PLCs) using the Allen-Bradley series of PLCs running Windows ladder logic software.

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.E. 4th Class Technician license.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| ELEC 12 | Computer Simulation and Troubleshooting | 2 |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 54A | Industrial Electronics | 4 |
| ELEC 54B | Industrial Electronic Systems | 3 |
| ELEC 56 | Digital Electronics | 4 |
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 33 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- be able to employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).
- demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.

• in advanced courses, connect concepts learned in introductory courses to more general principles applicable in the employment context.

Electronic Systems Technology -Level I

Technology and Health Division Certificate E0990

This is a fast-track certificate program within the fields of information and electronic technology. These fields are growing at rapid rates. The program provides job skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks (business and home), home theater, home automation, and home security systems (integrated home systems). Typical job titles in these areas are data or cable technician, low-voltage wiring technician, home theater installer, consumer electronics service technician and security system installer. The program prepares the student for the California State Contractors C-7 Low Voltage Systems license. The program encompasses a total of 29-29.5 Units comprising two levels of certification. The Level I certification (15-15.5 Units) develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for voice, video and data, and basic computer skills in word processing, spreadsheets, database and the Internet. Level II certification (14 Units) adds customer relations and advanced skills in the installation, calibration, setup, maintenance, and troubleshooting of home theater systems, home automation, and home security systems. A course on preparing for the C-7 license or troubleshooting digital TV with LCD, plasma, and DLP video displays is included.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|---------|
| ELEC 11 | Technical Applications in Microcomputers | 3-3.5 |
| or CISB 15 | Microcomputer Applications | |
| EST 50 | Electrical Fundamentals for Cable Installations | 4 |
| EST 52 | Fabrication Techniques for Cable Installations | 4 |
| EST 54 | Cabling and Wiring Standards | 4 |
| Total Units | | 15-15.5 |

Electronics and Computer Technology Website (http://www.mtsac.edu/electronics)

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronic Systems Technology -Level II

Technology and Health Division Certificate L0928

The Level II certification (14 Units) adds customer relations skills and the installation, calibration, setup maintenance and troubleshooting of home theater, home automation, and home security systems. Either a course on preparing for the C-7 license or troubleshooting digital TV with LCD, plasma and DLP video displays is included.

Required Courses

| nequirea oba | 1969 | |
|-------------------------------|--|---------|
| Course Prefix | Course Name | Units |
| Completion of the coursewor | e Electronic Systems Technology - Level I | 15-15.5 |
| PLUS | | |
| Completion of the course work | e Electronic Systems Technology - Level II | 14 |
| Total Units | | 29-29.5 |
| Course Prefix | Course Name | Units |
| Electronic Systen | ns Technology - Level I coursework | |
| ELEC 11 | Technical Applications in Microcomputers | 3-3.5 |
| or CISB 15 | Microcomputer Applications | |
| EST 50 | Electrical Fundamentals for Cable Installations | 4 |
| EST 52 | Fabrication Techniques for Cable Installations | 4 |
| EST 54 | Cabling and Wiring Standards | 4 |
| Total Units | | 15-15.5 |
| Course Prefix | Course Name | Units |
| Electronic Systen | ns Technology - Level II coursework | |
| EST 56 | Home Theater, Home Integration, & Home Security Systems | 4 |
| EST 62 | Electronic Troubleshooting- I | 4 |
| EST 64 | Electronic Troubleshooting - II | 4 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 14 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| ELEC 62 | Advanced Surface Mount Assembly and Rework | 2 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronics Technology

Technology and Health Division

Certificate L0905

This one-year program covers the fundamentals of electronics technology. These core courses provide the necessary skills for those seeking entry-level employment as electronics technicians without areas of specialization. Also included is a course in customer-relations training.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 56 | Digital Electronics | 4 |

| ELEC 61 | Electronic Assembly and Fabrication | 3 |
|-------------|---------------------------------------|----|
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 24 |

Electronics and Computer Technology Website (http://www.mtsac.edu/electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).
- demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.

Emergency Medical Technician EMT 90

Technology and Health Division Certificate E0378

Approved by the Los Angeles County and State Departments of Health. Emphasizes the development of skills to recognize symptoms of illnesses and injuries as well as the proper procedures of pre-hospital emergency care. Awards an EMT Course Completion Certificate necessary for many jobs in emergency care and is prerequisite for entry into a Paramedic program or most fire department jobs.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------|-------|
| EMT 90-A | Introduction to EMS System | 1.5 |
| EMT 90 | Emergency Medical Technician | 7 |
| Total Units | | 8.5 |

Special Information

To remain in the program, student must maintain a grade of "C" or better in the course. EMT 90-A is a mandatory pre-requisite to EMT 90.

Completion of the required course, which includes both written and practical qualifying examinations, will award the student an EMT Course Completion Certificate. Students are then eligible for certification by taking and passing the National Registry EMT certifying exam. This course is a prerequisite for the Paramedic Program and is required by most fire departments before the student may be hired as a firefighter.

Public Safety Programs Website (http://www.mtsac.edu/public-safety-programs)

Application Requirements

- 1. Applicant must be 18 years of age upon entrance into the course.
- 2. High school graduate or equivalent.

- 3. File a College application and be accepted as a student at Mt. San Antonio College.
- 4. A physical examination, proof of certain immunizations, current certification in CPR, and a criminal background check are required of all students prior to entrance into the clinical setting. Forms and information will be provided upon entry into the course.

Selection Procedure

The course is open to all students who meet the application requirements. All applicants are required to meet the Essential Functions in the Emergency Medical Technician Program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- · Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- · Subject to many interruptions
- · Requires decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission into the EMT program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

The Emergency Medical Technician EMT 90 program is accredited by the Committee on Accreditation of Allied Health Education Programs (CAAHEP).

Contact:

Committee on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, Florida 33756 (727)210-2350 www.caahep.org (http://www.caahep.org) Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Emergency Medical Technician EMT 95

Technology and Health Division

Certificate E0367

Approved by the Los Angeles County and State Departments of Health. Emphasizes the development of skills to recognize symptoms of illnesses and injuries as well as the proper procedures of pre-hospital emergency care. Awards an EMT Course Completion Certificate necessary for many jobs in emergency care and is prerequisite for entry into a Paramedic program or most fire department jobs.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-------------------------|-------|
| EMT 95 | EMT for Fire Technology | 8 |
| Total Units | | 8 |

Special Information

To remain in the program, student must maintain a grade of "C" or better in the course.

Completion of the required course, which includes both written and practical qualifying examinations, will award the student an EMT Course Completion Certificate. Students are then eligible for certification by taking and passing the National Registry EMT certifying exam. This course is a prerequisite for the Paramedic Program and is required by most fire departments before the student may be hired as a firefighter.

Public Safety Programs Website (http://www.mtsac.edu/public-safety-programs)

Application Requirements

- 1. Applicant must be 18 years of age upon entrance into the course.
- 2. High school graduate or equivalent.
- 3. File a College application and be accepted as a student at Mt. San Antonio College.
- 4. A physical examination including drug screen, proof of certain immunizations, current certification in CPR, and a criminal background check are required of all students prior to entrance into the clinical setting. Forms and information will be provided upon entry into the course.
- Advised to take either FIRE 1 (http://catalog.mtsac.edu/ archive/2017-2018/search/?P=FIRE%201) or FIRE 13 (http:// catalog.mtsac.edu/archive/2017-2018/search/?P=FIRE%2013) prior to entry into EMT 95 (http://catalog.mtsac.edu/archive/2017-2018/ search/?P=EMT%2095).

Selection Procedure

The course is open to all students who meet the application requirements. All applicants are required to meet the Essential Functions in the Emergency Medical Technician Program.

Physical Demands

• Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and or transferring patients

- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- · Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Emergency medical scene and patient management
- Subject to many interruptions
- · Requires decisions/actions related to end of life issues
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission into the EMT program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

The Emergency Medical Technician EMT 95 program is accredited by the Committee on Accreditation of Allied Health Education Programs (CAAHEP).

Contact:

Committee on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, Florida 33756 (727) 210-2350 www.caahep.org (http://www.caahep.org)

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Engineering and Construction Technology Level I

Technology and Health Division E0423

This foundational certificate is the first part of a multi-level certificate program preparing students to enter the field of construction, general or civil engineering technology, building inspection as well as construction management. Skills in reading construction drawings, construction processes and terminology, CADD computer applications in building construction and engineering will be developed. These skills are critical for employment in the engineering and construction technology or construction management sectors.

Required courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| ECT 16 | CADD and Digital Design Media Level I | 4 |
| ECT 67 | Reading Construction Drawings | 3 |
| ECT 70 | Elements of Construction Management | 3 |
| Total Units | | 10 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Be technically competent.
- · Be employed or seeking employment in the field or a related field.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Engineering and Construction Technology Level II

Technology and Health Division

L0427

This intermediate certificate is intended to continue preparing students for employment in the engineering and construction field. An understanding of building materials and architectural specifications in construction, building and zoning codes, permits, and architectural CAD and BIM will be developed. These skills are critical for direct employment in the fields of construction, general or civil engineering technology, building inspection and construction management. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------------------|---|-------|
| Completion of the Level I | e Engineering and Construction Technology - | 10 |
| PLUS | | |
| Completion of the Level II | e Engineering and Construction Technology - | 10 |
| Total Units | | 20 |
| Course Prefix | Course Name | Units |
| | | Units |
| Level I | e Engineering and Construction Technology - | |
| ECT 16 | CADD and Digital Design Media Level I | 4 |
| ECT 67 | Reading Construction Drawings | 3 |
| ECT 70 | Elements of Construction Management | 3 |
| Total Units | | 10 |
| Course Prefix | Course Name | Units |
| Completion of the Level II | e Engineering and Construction Technology - | |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 145 | Building and Zoning Codes | 3 |

| ARCH 147 | Architectural CAD and BIM | 3 |
|-------------|---------------------------|----|
| Total Units | | 10 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Be technically competent.
- · Be employed or seeking employment in the field or a related field.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

FAA Aircraft Dispatcher

Technology and Health Division Certificate E0408

Mt. San Antonio College maintains a Federal Aviation Administration (FAA) approved Aircraft Dispatcher (AD) Program. This program prepares students to enter employment as a certified aircraft dispatcher in the airline industry, air-medical industry, corporate aircraft operators, and aviation weather service companies. Completion of this program leads to a Certificate. Successful completion of this program enables students to take the FAA written, oral, and practical tests for the FAA Aircraft Dispatcher Certificate.

Aeronautics Website (http://www.mtsac.edu/aeronautics)

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AERO 254 | Aircraft Dispatcher Operations | 4 |
| AERO 258 | Multi-Engine Turbine Aircraft Operations | 3 |
| Total Units | | 7 |

Aeronautics Website (http://www.mtsac.edu/aeronautics)

Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Fashion Computer Aided Design

Business Division

Certificate E0383

The Fashion Computer Aided Design Certificate consists of apparel design courses that offer students a basic understanding of clothing construction, patternmaking, technical design, and patternmaking software. In addition, students become proficient in creating technical drawings and retail planograms using CAD software. Students prepare for careers in apparel manufacturing, production, technical design, and visual merchandising.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| FASH 15 | Aesthetic Design in Fashion | 3 |
| FASH 23 | Patternmaking II | 3 |
| FASH 24 | Fashion Patternmaking by Computer | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| FASH 66 | Visual Merchandising Display | 3 |
| Total Units | | 15 |

Fashion Website (http://www.mtsac.edu/fashion)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

 Create an apparel collection including textile designs and flats (technical drawings) pursuant to apparel industry standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fashion Design - Level I

Business Division

Certificate L1397

The Fashion Design Level I Certificate consists of basic apparel design courses that prepare students for entry level work in the fields of apparel manufacturing, production, and technical design. Upon completion of the certificate, students will have a basic understanding of clothing construction and patternmaking. In addition, students will develop CAD skills for technical drawing and computerized patternmaking.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| FASH 10 | Clothing Construction I | 3 |
| FASH 12 | Clothing Construction II | 3 |
| FASH 17 | Textiles | 3 |
| FASH 21 | Patternmaking I | 3 |
| FASH 24 | Fashion Patternmaking by Computer | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| Total Units | | 18 |

Fashion Website (http://www.mtsac.edu/fashion)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

 Demonstrate understanding of the fashion industry trend research process.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fashion Design - Level II

Business Division

Certificate L0377

The Fashion Design: Level II Certificate builds upon the Level I Certificate to provide students with intermediate skills that will enhance their Fashion Design careers. Students will have a strategic view of historic costume research, and textile attributes and characteristics. Students will be exposed to additional categories and classifications of apparel and will further research and design products for divergent target markets. Students will prepare professional portfolios to strengthen career perspectives. Completion of the Fashion Design: Level II Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a career.

Required Courses

| incquired ou | | |
|-----------------------|---|-------|
| Course Prefix | Course Name | Units |
| Completion of t | he Fashion Design - Level I coursework | 18 |
| PLUS | | |
| Completion of t | he Fashion Design - Level II coursework | 6 |
| Total Units | | 24 |
| Course Prefix | Course Name | Units |
| Fashion Design | - Level I Coursework | |
| FASH 10 | Clothing Construction I | 3 |
| FASH 12 | Clothing Construction II | 3 |
| FASH 17 | Textiles | 3 |
| FASH 21 | Patternmaking I | 3 |
| FASH 24 | Fashion Patternmaking by Computer | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| Total Units | | 18 |
| Course Prefix | Course Name | Units |
| Fashion Design | - Level II Coursework | |
| FASH 22 | Fashion Design By Draping | 3 |
| FASH 23 | Patternmaking II | 3 |
| Total Units | | 6 |

Fashion Website (http://www.mtsac.edu/fashion)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate their understanding of the fashion industry trend research process.
- Create apparel patterns using CAD patternmaking industry software pursuant to apparel industry standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fashion Merchandising - Level I

Business Division

Certificate L0314

The certificate in Fashion Merchandising offers students courses specializing in apparel retailing, advertising, textiles, and CAD technical drawing. The courses emphasize the business of fashion, wholesale merchandise planning, apparel technology, retailing, and fashion branding targeting specific markets. Upon completion of the certificate, students will be able to develop marketing strategies, create promotional campaigns, understand the buying process, and analyze retail businesses.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| FASH 8 | Introduction to Fashion | 3 |
| FASH 17 | Textiles | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| FASH 59 | Fashion Retailing | 3 |
| FASH 62 | Retail Buying and Merchandising | 3 |

| Program Learning Outcomes | | | |
|---------------------------|-------------------|----|--|
| Total Units | | 18 | |
| FASH 63 | Fashion Promotion | 3 | |

hon successful completion of this program a student w

Upon successful completion of this program, a student will be able to:

 Demonstrate their understanding of the fashion industry trend research process.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fashion Merchandising - Level II

Business Division

Certificate L1303

The Fashion Merchandising Level II Certificate is designated to build upon the Fashion Merchandising Level I Certificate to provide students with proven business and management tools that will increase their practical understanding of merchandising and marketing. Students will be exposed to projects and visual display simulations that will enhance their merchandising and management career potential.

Required Courses

| Course Prefix | Course Name | Units |
|------------------------------|-----------------------------------|-------|
| Completion of the coursework | Fashion Merchandising - Level I | 18 |
| PLUS | | |
| Completion of the coursework | Fashion Merchandising - Level II | 9 |
| Total Units | | 27 |
| Course Prefix | Course Name | Units |
| Fashion Merchan | dising - Level I Coursework | |
| FASH 8 | Introduction to Fashion | 3 |
| FASH 17 | Textiles | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| FASH 59 | Fashion Retailing | 3 |
| FASH 62 | Retail Buying and Merchandising | 3 |
| FASH 63 | Fashion Promotion | 3 |
| Total Units | | 18 |
| Course Prefix | Course Name | Units |
| Fashion Merchan | dising - Level II Coursework | |
| FASH 10 | Clothing Construction I | 3 |
| FASH 15 | Aesthetic Design in Fashion | 3 |
| FASH 66 | Visual Merchandising Display | 3 |
| Total Units | | 9 |

Recommended Elective

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| FASH 81 | Work Experience in Fashion Merchandising | 1 |
| | and Retail | |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate their understanding of the fashion industry trend research process.
- Analyze the marketing and promotional techniques of fashion and apparel companies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fire Officer Certification

Technology and Health Division

Certificate E0381

The Fire Officer Certificate is intended for in-service firefighters preparing for promotion. It meets the prerequisite educational requirements for fire officer promotional exams.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| FIRE 100 | Company Officer 2C: Fire Inspections and Investigations | 1.5 |
| FIRE 101 | Company Officer 2D All Risk Command Operations | 1.5 |
| FIRE 102 | Company Officer 2B General Administrative Functions | 1 |
| FIRE 103 | Company Officer 2E : Wildland Incident Operations | 1.5 |
| FIRE 104 | Instructional Methodology | 1.5 |
| FIRE 107 | Company Officer 2A: Human Resource Management for Company Officers | 1.5 |
| FIRE 108 | ICS 300: Advance Incident Command | 1 |
| Total Units | | 9.5 |

The Fire Officer Certification program is a Regionally Accredited Training Program (ARTP). The Office of the State Fire Marshall (OSFM) has a responsibility for accreditation of ARTP's throughout the State of California. An ARTP shall provide the following delivery components:

1. California Fire Service Training and Education System (CFSTES) 2. California Fire Service Training and Education Program (FSTEP) 3. Fire Incident Command Certification System (CICCS) 4. California Community College Chancellor's Office Standard Fire Technology Degree Core Program

Contact:

Office of the State Fire Marshall 1131 S. Street Sacramento, CA 95811 (916) 445-8200 www.osfm.fire.ca.gov (http://www.osfm.fire.ca.gov) Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fire Technology

Technology and Health Division Certificate L2105

The Fire Science Certificate has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|---------|
| FIRE 1 | Fire Protection Organization | 3 |
| FIRE 2 | Fire Prevention Technology | 3 |
| FIRE 3 | Fire Protection Equipment and Systems | 3 |
| FIRE 4 | Building Construction for Fire Protection | 3 |
| FIRE 5 | Fire Behavior and Combustion | 3 |
| FIRE 13 | Principles of Fire and Emergency Services Safety and Survival | 3 |
| Choose two cour | ses from the following: | 5.5-19 |
| FIRE 6 | Hazardous Materials/ICS | |
| FIRE 7 | Fire Fighting Tactics and Strategy | |
| FIRE 8 | Fire Company Organization and Management | |
| FIRE 9 | Fire Hydraulics | |
| FIRE 10 | Arson and Fire Investigation | |
| FIRE 11 | Fire Apparatus and Equipment | |
| FIRE 12 | Wildland Fire Control | |
| FIRE 86 | Basic Fire Academy | |
| KINF 53 | Physical Training for the Basic Fire Academy | |
| Total Units | | 23.5-37 |

The Fire Technology program is a Regionally Accredited Training Program (ARTP). The Office of the State Fire Marshall (OSFM) has a responsibility for accreditation of ARTP's throughout the State of California. An ARTP shall provide the following delivery components:

1. California Fire Service Training and Education System (CFSTES) 2. California Fire Service Training and Education Program (FSTEP) 3. Fire Incident Command Certification System (CICCS) 4. California Community College Chancellor's Office Standard Fire Technology Degree Core Program

Contact:

Office of the State Fire Marshall 1131 S. Street Sacramento, CA 95811 (916) 445-8200 www.osfm.fire.ca.gov (http://www.osfm.fire.ca.gov) **Program Learning Outcomes**

Upon successful completion of this program, a student will be able to:

- Define fire department organization, culture, and methods of communication of entry level fire department personnel.
- Analyze and assess firefighter hazards, and demonstrate safe practices by using minimum standard safety procedures.
- Demonstrate knowledge of fire preventions efforts and a resulting reduction of life and property loss.
- Demonstrate knowledge of strategy and tactics required for the proper selection and safe use of firefighting methods, techniques, tools and equipment.
- Identify fire chemistry and behavior for the purpose of predicting fire dynamics and flame spread characteristics.
- Identify components of built-in and portable fire protections systems and alarm and notification devises.
- Demonstrate knowledge of the 5 basic types of construction. Identify the components and hazards related to each type.
- Demonstrate knowledge of Leadership and Management concepts as they relate to emergency and non-emergency situations.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fitness Specialist/Personal Trainer

Certificate E0808

The Fitness Specialist/Personal Trainer Certificate prepares students for careers as personal trainers, health/fitness professionals in corporate fitness facilities, wellness centers and public/private health clubs. The Fitness Specialist/Personal Trainer Certificate curriculum is designed to prepare students who wish to take exams offered by the American Council on Exercise (ACE), the American College of Sports Medicine (ACSM) and other nationally recognized organizations. Technical skills necessary for implementation of a safe, effective and motivational physical fitness program are presented.

Required Courses

| Course Prefix | Course Name | Units | |
|-----------------------|---|-------|--|
| KIN 15 | Administration of Fitness Programs | 2 | |
| KIN 24 | Applied Kinesiology | 2 | |
| KIN 38 | Physiology of Exercise for Fitness | 3 | |
| KIN 39 | Techniques of Fitness Testing | 2 | |
| KIN 40 | Techniques of Strength Training and Conditioning | 3 | |
| KIN 85 | Fitness Specialist Internship | 1 | |
| Choose one cour | se from the following | 3 | |
| NF 10 | Nutrition for Health and Wellness | | |
| NF 12 | Sports Nutrition | | |
| NF 25 | Introduction to Nutrition Science | | |
| or NF 25H | Introduction to Nutrition Science - Honors | | |
| Total Units | | 16 | |
| Recommended Electives | | | |
| Course Prefix | Course Name | Units | |
| DNCE 39A | Alignment and Correctives I | 0.5 | |

Program Learning Outcomes

Movement

KINF 25

Upon successful completion of this program, a student will be able to:

• Design a 6-12 month exercise program based on clients current fitness level and abilities and their current fitness goals.

Core Performance and Foundation

- Demonstrate a knowledge of the structure and function of exercising muscle.
- Demonstrate a working knowledge and practical application of General principles of training as applied to, Resistance training programs, Aerobic and anaerobic power training programs.
- Demonstrate the ability to assess muscular strength, aerobic fitness anaerobic power using safe and accepted protocols.
- Describe primary functions and movement patters of muscles joints during specific exercises in order to give appropriate feedback as to the proper execution of an exercise.
- Use appropriate verbal and nonverbal communication to coach and motivate individuals in their exercise program.
- Describe basic nutrition concepts as they relate to performance, sport and a healthy lifestyle.

- Demonstrate the ability to monitor client's safety in a gym environment and respond to potential risks and or hazards.
- Demonstrate a knowledge of ethical and legal issues faced by a personal trainer.
- Demonstrate a knowledge of various types of cardiovascular disease and the pathology it has on the body. Understand how exercise can be used to prevent a disease and obesity to better quality of life for an individual.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Gallery Design/Operation and Art Profession

Arts Division

Certificate E1020

This certificate is designed to provide students with the necessary theoretical and practical knowledge and skills to display an esthetically and conceptually effective art exhibition. Students will acquire the knowledge of various/diverse artistic media and develop a careeroriented artistic perspective.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ARTG 20 | Art, Artists and Society | 3 |
| ARTG 21A | Introduction to Exhibition Production | 3 |
| ARTG 21B | Intermediate Exhibition Production | 3 |
| ARTG 22A | Exhibition Design and Art Gallery Operation Work Experience ¹ | 2 |
| ARTC 100 | Graphic Design I | 3 |
| AHIS 5 | History of Western Art: Renaissance Through Modern | 3 |
| or AHIS 6 | History of Modern Art | |
| Total Units | | 17 |

 Course to be taken twice - once as an off-campus experience and once as an on-campus experience (2 Units)

Program Learning Outcomes

1-2

Upon the successful completion of this program, a student will:

- Have completed the foundation courses of the major which are the aesthetic base needed for transfer into bachelors programs or independent work as an artist.
- · Will be able to apply critical thinking skills to original work.
- Be able to apply the elements and principles of design to original art work.
- Be able to apply visual arts concepts that are basic to many forms and fields of art and design in visual, oral, and written communication.
- Be able to analyze historical, contemporary, peer, and personal visual artwork that range in modes of artistic expression.
- Be able to demonstrate in oral, written and studio work familiarity with the history of western art.
- Be proficient in a variety of visual art techniques and tools using them to explore a range of subjects, media, styles and formats.

 Create independent original work in the area of their focus demonstrating basic professional practices.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Game Programming Development

Business Division

Certificate E0380

This curriculum is designed for returning CIS professionals with several years experience or current students who have completed several CIS courses. This certificate will give students skills that are necessary to obtain jobs in game programming. Students will learn different software packages for developing games as well as general programming skills.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| CISP 31 | Programming in C++ | 3 |
| CISP 31L | Programming in C++ Laboratory | 0.5 |
| CISP 61 | Introduction to Game Programming | 3 |
| CISP 61L | Introduction to Game Programming Laboratory | 0.5 |
| CISP 62 | Introduction to OpenGL | 3 |
| CISP 62L | Introduction to OpenGL Laboratory | 0.5 |
| Total Units | | 13 |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- use OPENGL to animate objects in a program.
- · use OPENGL to add light and textures to a program.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Graphic Design Level I

Arts Division

Certificate E0341

This multi-level certificate program is designed to prepare students for careers in the Graphic Design field of Communication Art. Students are given creative design and technology skills necessary to develop successful graphic design for print, web, and other media. This Graphic Design Level I certificate offers the essential skills required for entry-level employment opportunities as a production or layout artist, interface or content designer, publication artist, print advertising artist, or desktop publisher. The production software reflects industry standards and course content is driven by industry needs.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-------------------------|-------|
| ARTC 100 | Graphic Design I | 3 |
| ARTC 120 | Graphic Design II | 3 |
| ARTC 140 | Graphic Design III | 3 |
| ARTC 160 | Typography | 3 |
| ARTD 20 | Design: Two-Dimensional | 3 |

| PHOT 5 | Digital Cameras and Composition | 1 |
|-------------|---------------------------------|----|
| Total Units | | 16 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Graphic Design Level II

Arts Division

Certificate T0369

This multi-level certificate program is designed to prepare students for careers in the Graphic Design field of Communication Art. Students are given a balanced blend of creative, design, and technology skills necessary to develop successful graphic design for print, web, and other media channels. This Graphic Design Level II certificate offers additional expertise necessary for employment opportunities in the field of Graphic Design. The production software reflects industry standards and course content is driven by industry needs.

Required Courses

ARTD 21

Total Units

| • | | |
|--|---|----------------------------|
| Course Prefix | Course Name | Units |
| Completion of th | e Graphic Design Level I coursework | 16 |
| PLUS | | |
| Completion of th | e Graphic Design Level II coursework | 18 |
| Total Units | | 34 |
| Course Prefix | Course Name | Units |
| Graphic Design L | evel I Coursework | |
| ARTC 100 | Graphic Design I | 3 |
| ARTC 120 | Graphic Design II | 3 |
| ARTC 140 | Graphic Design III | 3 |
| ARTC 160 | Typography | 3 |
| ARTD 20 | Design: Two-Dimensional | 3 |
| PHOT 5 | Digital Cameras and Composition | 1 |
| Total Units | | 16 |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name evel II Coursework | Units |
| | | Units |
| Graphic Design L | | Units 3 |
| Graphic Design L Core Courses | evel II Coursework | |
| Graphic Design L Core Courses ARTC 200 | evel II Coursework Web Design | 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 | evel II Coursework Web Design Corporate Identity and Branding | 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 ARTC 220 | evel II Coursework Web Design Corporate Identity and Branding Graphic Design IV Motion Graphics, Compositing and Visual | 3 3 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 ARTC 220 ARTC 220 | evel II Coursework Web Design Corporate Identity and Branding Graphic Design IV Motion Graphics, Compositing and Visual Effects Portfolio | 3 3 3 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 ARTC 220 ARTC 220 ARTC 272 ARTC 290 Required Elective | evel II Coursework Web Design Corporate Identity and Branding Graphic Design IV Motion Graphics, Compositing and Visual Effects Portfolio | 3 3 3 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 ARTC 220 ARTC 220 ARTC 272 ARTC 290 Required Elective | evel II Coursework Web Design Corporate Identity and Branding Graphic Design IV Motion Graphics, Compositing and Visual Effects Portfolio SS | 3 3 3 3 3 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 ARTC 220 ARTC 220 ARTC 272 ARTC 290 Required Elective Choose one cour | evel II Coursework Web Design Corporate Identity and Branding Graphic Design IV Motion Graphics, Compositing and Visual Effects Portfolio es se from the following: | 3 3 3 3 3 3 |
| Graphic Design L Core Courses ARTC 200 ARTC 210 ARTC 220 ARTC 220 ARTC 272 ARTC 290 Required Elective Choose one cour ANIM 104 | evel II Coursework Web Design Corporate Identity and Branding Graphic Design IV Motion Graphics, Compositing and Visual Effects Portfolio se from the following: Drawing Fundamentals | 3 3 3 3 3 3 |

Design: Color and Composition

18

7

Recommended Elective

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| ARTC 299 | Work Experience in Graphic Design | 1 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Research and interpret information necessary to develop an effective message(s) and strategy for a commercial art assignment.
- · Develop and communicate creative, visual solutions for a commercial art assignment.
- · Design commercial art products that effectively utilize principles and elements of design.
- · Select and use appropriate, industry standard tools and technology to produce commercial art products.
- · Present their commercial art products, explaining and defending their strategic choices, creative ideas and design decisions.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Horse Ranch Management - Level I

Natural Sciences Division

Certificate E0361

This certificate program is designed to give students basic skills for employment on horse ranches and in agriculture sales and services. All courses are applicable for degree requirements in Horse Ranch Management and Livestock Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------|-------|
| AGAN 2 | Animal Nutrition | 3 |
| AGLI 16 | Horse Production and Management | 4 |
| AGLI 18 | Horse Ranch Management | 4 |
| Total Units | | 11 |

Animal Sciences Website (http://www.mtsac.edu/animal)

Program Learning Outcomes

Upon successful completion of this program, a student:

- · completing the Horse Ranch Management certificate will demonstrate professional conduct in the industry.
- · will design a production/business plan for a horse-related activity.
- · completing a certificate in Horse Ranch Management will be able to address animal welfare requirements when designing and implementing an equine management system.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Horse Ranch Management - Level II

Natural Sciences Division

Certificate L0376

The Horse Ranch Management - Level II certificate will provide students with intermediate skills that will lead to a career in the equine industry. These courses will concentrate on care and maintenance, basic anatomy

and physiology of horses, and breeding procedures. This certificate may aid in the student's search for an entry level position at a horse facility.

Required Courses

| nequirea oou | | | | |
|------------------------------|---------------------------------------|-------|--|--|
| Course Prefix | Course Name | Units | | |
| Completion of the coursework | e Horse Ranch Management - Level I | 11 | | |
| PLUS | | | | |
| Completion of the coursework | e Horse Ranch Management - Level II | 7 | | |
| Total Units | | 18 | | |
| Course Prefix | Course Name | Units | | |
| Horse Ranch Mar | nagement - Level I coursework | | | |
| AGAN 2 | Animal Nutrition | 3 | | |
| AGLI 16 | Horse Production and Management | 4 | | |
| AGLI 18 | Horse Ranch Management | 4 | | |
| Total Units | | 11 | | |
| Course Prefix | Course Name | Units | | |
| Horse Ranch Mar | nagement - Level II coursework | | | |
| AGAG 59 | Work Experience in Agriculture | 1 | | |
| AGAN 94 | Animal Breeding | 3 | | |
| AGLI 96 | Animal Sanitation and Disease Control | 3 | | |

Total Units

Animal Sciences Website (http://www.mtsac.edu/animal)

Program Learning Outcomes

Upon successful completion of this program, a student:

- completing the Horse Ranch Management certificate will demonstrate professional conduct in the industry
- · will design a production/business plan for a horse-related activity
- · completing a certificate in Horse Ranch Management will be able to address animal welfare requirements when designing and implementing an equine management system

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Horticulture Science

Natural Sciences Division

Certificate L0394

This certificate is designed to give students basic knowledge and skills pertaining to horticulture science.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 39 | Turf Grass Production and Management | 3 |

| AGOR 50 | Soil Science and Management | 3 | |
|-------------|-----------------------------|----|--|
| Total Units | | 18 | |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · explain the binomial method of plant nomenclature
- evaluate the soil conditions at an existing site and make specific recommendations for the immediate and long-term correction of all problems
- · give a professional quality oral presentation

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Hospitality: Event Planning and Catering

Business Division

Certificate E0379

The Catering Certificate prepares students for entry-level positions in catering companies, banquets facilities, hotels, convention centers, fair grounds and event planning companies. Students gain practical and management training in: food safety and sanitation, food production, menu development, developing catering business plans, client meeting techniques, contract creation and banquet event order development. Students who successfully complete the requirements for this certificate will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------|-------|
| HRM 52 | Food Safety and Sanitation | 1.5 |
| HRM 54 | Basic Cooking Techniques | 3 |
| HRM 61 | Menu Planning | 3 |
| HRM 62 | Event Planning and Catering | 3 |
| Total Units | | 10.5 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Develop a business plan for a catering business and understand the enormity of planning for and opening a small business.
- Plan a food production schedule and assemble the tools, equipment, and ingredients required to produce a recipe in an organized and efficient manner.
- · Analyze the popularity and profitability of a menu.
- Meet with prospective clients and plan all elements of a special event.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Hospitality: Food Services

Business Division

Certificate E1390

This certificate prepares the holder to enter the food service field as a skilled food service worker in either food preparation or service.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| HRM 51 | Introduction to Hospitality | 3 |
| HRM 52 | Food Safety and Sanitation | 1.5 |
| HRM 53 | Dining Room Service Management | 3 |
| Total Units | | 7.5 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Utilize acquired classroom knowledge and skills to explore job opportunities in the hospitality industry and develop a career portfolio.
- Identify and Determine the presence of foodborne-illnesses causing outbreaks.
- Differentiate between the various styles of service including: American (Pre-plated), English (Family), Russian (Platter), French (Gueridon).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Hospitality: Hospitality Management - Level I

Business Division

Certificate E1332

The Hospitality: Hospitality Management - Level I Certificate prepares students for entry-level positions in the hospitality industry. Students receive training in dining room service management and lodging operations. Students who successfully complete the requirements for this certificate will also be required to complete a minimum of 60 nonpaid or 75 paid hours of work experience in the hospitality industry.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| HRM 51 | Introduction to Hospitality | 3 |
| HRM 53 | Dining Room Service Management | 3 |
| HRM 70 | Introduction to Lodging | 3 |
| HRM 91 | Hospitality Work Experience | 1 |
| Total Units | | 10 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Utilize acquired classroom knowledge and skills to explore job opportunities in the hospitality industry and develop a career portfolio.
- Differentiate between the various styles of service including: American (Pre-plated), English (Family), Russian (Platter), French (Gueridon).
- Identify staffing needs for a hotel Front Desk based on occupancy, level of activity, and budget constraints.
- Establish room rates based on desired profits using the Hubbart formula.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Hospitality: Hospitality Management - Level II

Business Division

Certificate L1325

The Hospitality Management - Level II Certificate prepares students for mid-level or Manager-In-Training positions in the hospitality industry. Students gain practical and management training in: dining room service management, supervision, financial accounting, lodging management, and hospitality law. Students who successfully complete the requirements for this certificate will also be required to complete a minimum of 60 non-paid or 75 paid hours of work experience in the hospitality industry.

Required Courses

| | O server a Name | |
|------------------------------------|---|-------|
| Course Prefix | Course Name | Units |
| Completion of the I coursework | e Hospitality: Hospitality Management - Level | 10 |
| PLUS | | |
| Completion of the II coursework | e Hospitality: Hospitality Management - Level | 9 |
| Total Units | | 19 |
| Course Prefix | Course Name | Units |
| Hospitality: Hosp | itality Management - Level I Coursework | |
| HRM 51 | Introduction to Hospitality | 3 |
| HRM 53 | Dining Room Service Management | 3 |
| HRM 70 | Introduction to Lodging | 3 |
| HRM 91 | Hospitality Work Experience | 1 |
| Total Units | | 10 |
| Course Prefix | Course Name | Units |
| Hospitality: Hosp | itality Management - Level II Coursework | |
| HRM 56 | Hospitality Supervision | 3 |
| HRM 64 | Hospitality Financial Accounting | 3 |
| HRM 66 | Hospitality Law | 3 |
| Total Units | | 9 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Utilize acquired classroom knowledge and skills to explore job opportunities in the hospitality industry and develop a career portfolio.
- Differentiate between the various styles of service including: American (Pre-plated), English (Family), Russian (Platter), French (Gueridon).
- Identify staffing needs for a hotel Front Desk based on occupancy, level of activity, and budget constraints.
- Establish room rates based on desired profits using the Hubbart formula.
- Conduct an employee: interview, performance evaluation, and apply effective discipline techniques.
- Develop an Income (P&L) Statement for a hospitality operation.

 Analyze a civil case related to the hospitality industry and determine the facts, elements of negligence, possible consequences and outcomes.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Hospitality: Restaurant Management - Level I

Business Division

Certificate E1333

The Hospitality: Restaurant Management - Level I Certificate prepares the holder for an entry-level position within a restaurant.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| HRM 51 | Introduction to Hospitality | 3 |
| HRM 52 | Food Safety and Sanitation | 1.5 |
| HRM 53 | Dining Room Service Management | 3 |
| HRM 91 | Hospitality Work Experience | 1 |
| Total Units | | 8.5 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Utilize acquired classroom knowledge and skills to explore job opportunities in the hospitality industry and develop a career portfolio.
- Identify and Determine the presence of foodborne-illnesses causing outbreaks.
- Differentiate between the various styles of service including: American (Pre-plated), English (Family), Russian (Platter), French (Gueridon).
- Develop measurable skill-based learning objectives, which student will attain at the end of their work experience period.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Hospitality: Restaurant Management - Level II

Business Division

Certificate E0343

The Restaurant Management - Level II Certificate prepares students for mid-level or Manager-In-Training positions in restaurants, catering, hotel food and beverage outlets, theme parks and other food service businesses. Students gain practical and management training in: food safety and sanitation, food production, dining room service management, menu development and cost volume analysis. Students who successfully complete the requirements for this certificate will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam.

Required Courses

Course Prefix Course Name

Completion of the Hospitality: Restaurant Management - Level I coursework Units 8.5

| PLUS | | |
|------------------|---|-------|
| | | |
| • | he Hospitality: Restaurant Management - Level | 9 |
| II coursework | | |
| Total Units | | 17.5 |
| Course Prefix | Course Name | Units |
| Hospitality: Res | taurant Management - Level I Coursework | |
| HRM 51 | Introduction to Hospitality | 3 |
| HRM 52 | Food Safety and Sanitation | 1.5 |
| HRM 53 | Dining Room Service Management | 3 |
| HRM 91 | Hospitality Work Experience | 1 |
| Total Units | | 8.5 |
| Course Prefix | Course Name | Units |
| Hospitality: Res | taurant Management - Level II Coursework | |
| HRM 54 | Basic Cooking Techniques | 3 |
| HRM 57 | Hospitality Cost Control | 3 |
| HRM 61 | Menu Planning | 3 |
| Total Units | | 9 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Utilize acquired classroom knowledge and skills to explore job opportunities in the hospitality industry and develop a career portfolio.
- Identify and Determine the presence of foodborne-illnesses causing outbreaks.
- Differentiate between the various styles of service including: American (Pre-plated), English (Family), Russian (Platter), French (Gueridon).
- Develop measurable skill-based learning objectives, which student will attain at the end of their work experience period.
- Plan a food production schedule and assemble the tools, equipment, and ingredients required to produce a recipe in an organized and efficient manner.
- · Analyze the popularity and profitability of a menu.
- Conduct break-even analysis on a food & beverage facility and conduct cost volume analysis to determine number of customers required to attain desired profits.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Industrial Design Engineering - Level

Technology and Health Division

Certificate L0327

This program is designed to prepare the student for a career in a wide range of industries including product and industrial design firms and fabrication and manufacturing companies. Students are introduced to product development from design through prototyping and fabrication for manufacturing. Portfolio or prototype development is required on each of the semester levels.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| IDE 110 | Design Foundation-Visual Literacy | 3 |
| IDE 120 | Introduction to CAD | 3 |
| IDE 130 | Shop Processes | 3 |
| IDE 150 | Design Foundations | 3 |
| IDE 160 | Intermediate CAD | 3 |
| IDE 170 | Introduction to Prototyping | 3 |
| Total Units | | 18 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 81 | Laboratory Studies in Electronics Technology | 1-2 |
| MATH 51 | Elementary Algebra | 4 |
| PHYS 1 | Physics | 4 |
| WELD 30 | Metal Sculpture | 2 |
| WELD 40 | Introduction to Welding | 2 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Industrial Design Engineering - Level

Technology and Health Division Certificate L0329

This program is designed to prepare the student for a career in a wide range of industries including product and industrial design firms and fabrication and manufacturing companies. Students are introduced to product development from design through prototyping and fabrication for manufacturing. Portfolio or prototype development is required on each of the semester levels.

Required Courses

| Course Prefix Completion of the coursework | Course Name e Industrial Design Engineering - Level I | Units 18 |
|---|--|-------------|
| PLUS | | |
| Completion of the coursework | e Industrial Design Engineering - Level II | 9 |
| Total Units | | 27 |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name Engineering - Level I Coursework | Units |
| | | Units 3 |
| Industrial Design | Engineering - Level I Coursework | |
| Industrial Design | Engineering - Level I Coursework Design Foundation-Visual Literacy | 3 |
| Industrial Design IDE 110 IDE 120 | Engineering - Level I Coursework Design Foundation-Visual Literacy Introduction to CAD | 3 |

IDE 170 Introduction to Prototyping Total Units

3

18

| Course Prefix | Course Name | Units |
|-------------------|---------------------------------------|-------|
| Industrial Desigr | en Engineering - Level II Coursework | |
| IDE 210 | Advanced Media | 3 |
| IDE 220 | Advanced CAD | 3 |
| IDE 230 | Introduction to Mechanical Principles | 3 |
| Total Units | | 9 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 81 | Laboratory Studies in Electronics Technology | 1-2 |
| MATH 51 | Elementary Algebra | 4 |
| PHYS 1 | Physics | 4 |
| WELD 30 | Metal Sculpture | 2 |
| WELD 40 | Introduction to Welding | 2 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Industrial Design Engineering - Level III

Technology and Health Division Certificate T0328

This program is designed to prepare the student for a career in a wide range of industries including product and industrial design firms and fabrication and manufacturing companies. Students are introduced to product development from design through prototyping and fabrication for manufacturing. Portfolio or prototype development is required on each of the semester levels. In the Level Three certificate, this will culminate in a final "senior project," which is a portfolio that includes two and three-dimensional design, documentation (accountability measures), presentation, and fabrication. This project will demonstrate the student's mastery of the concepts and methodologies learned during the program.

Required Courses

| Course Prefix | Course Name | Units |
|--|--|-----------------|
| Completion of the coursework | e Industrial Design Engineering - Level I | 18 |
| PLUS | | |
| Completion of the coursework | e Industrial Design Engineering - Level II | 9 |
| PLUS | | |
| Completion of the coursework | e Industrial Design Engineering - Level III | 9 |
| | | |
| Total Units | | 36 |
| Total Units Course Prefix | Course Name | 36 Units |
| Course Prefix | Course Name Engineering - Level I Coursework | |
| Course Prefix | | |
| Course Prefix Industrial Design | Engineering - Level I Coursework | Units |
| Course Prefix Industrial Design IDE 110 | Engineering - Level I Coursework Design Foundation-Visual Literacy | Units 3 |
| Course Prefix Industrial Design IDE 110 IDE 120 | Engineering - Level I Coursework Design Foundation-Visual Literacy Introduction to CAD | Units 3 3 |

| IDE 170 | Introduction to Prototyping | 3 |
|------------------|---|------------|
| Total Units | | 18 |
| Course Prefix | Course Name | Units |
| Industrial Desig | n Engineering - Level II Coursework | |
| IDE 210 | Advanced Media | 3 |
| IDE 220 | Advanced CAD | 3 |
| IDE 230 | Introduction to Mechanical Principles | 3 |
| Total Units | | 9 |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name n Engineering - Level III Coursework | Units |
| | | Units 6 |
| Industrial Desig | n Engineering - Level III Coursework | |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 81 | Laboratory Studies in Electronics Technology | 1-2 |
| MATH 51 | Elementary Algebra | 4 |
| PHYS 1 | Physics | 4 |
| WELD 30 | Metal Sculpture | 2 |
| WELD 40 | Introduction to Welding | 2 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Infant/Toddler Development

Business Division

Certificate T1318

The Infant/Toddler Certificate provides specialized skills and knowledge for working with infants and toddlers. This certificate exceeds Title 22 requirements for a fully qualified teacher of infants/toddlers by including the specified 3 units related to infant care. With 350 days of experience, the completion of 16 specified G.E. units in Areas A, B, C, and D and 2 adult supervision units; this certificate meets Title 5 education requirements for the Master Teacher Level Permit. This permit authorizes the holder to provide service in the care, development and instruction of children and serve as a coordinator of curriculum and staff development.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| CHLD 50 | Teaching in a Diverse Society | 3 |
| CHLD 64 | Health, Safety and Nutrition of Children | 3 |
| CHLD 72 | Teacher, Parent, and Child Relationships | 3 |
| CHLD 73 | Infant and Toddler Development | 3 |
| CHLD 79 | Infant and Toddler Care and Education | 3 |
| CHLD 85 | Infants At Risk | 3 |
| CHLD 86 | Infant Toddler Practicum Seminar | 2 |

| CHLD 87 | Infant Toddler Practicum Field Work |
|---------|-------------------------------------|
| | Experience |
| | |

Total Units

¹ - Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationships that support and empower families and to involve all families in their children's development and learning.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Information and Operating Systems Security

Business Division

Certificate E0731

The Information and Operating Systems Security certificate provides students the skills to analyze security risks to a computer network and select and deploy countermeasures to reduce the network's exposure to such risks. The certificate offers a balanced set of classes that provides students the skills to identify network threats and protect the system against them. Students will demonstrate the ability to create a secure computer system and utilize security tools to protect it from security threats. Although this certificate, by itself, may not qualify a student for a career in network security, it would ideally complement other network security certificates and/or degrees within the CIS program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISS 11 | Practical Computer Security | 2 |
| CISS 13 | Principles of Information Systems Security | 4 |
| CISS 15 | Operating Systems Security | 3 |
| Total Units | | 9 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · strengthen security of any operating system by installing Firewall.
- install safe and secure wireless network using computers with different operating systems (Windows, Mac etc.).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Interior Design - Level I

Business Division

30

Certificate E0364

Interior Design - Level I Certificate is designed to prepare students with a broad overview and solid foundation in the area of interior design and related fields. This certificate may lead to new opportunities and provide students with the groundwork upon which to build a career.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ID 10 | Introduction to Interior Design | 2 |
| ID 10L | Introduction to Interior Design Laboratory | 1 |
| ID 12 | Materials and Products for Interior Design | 3 |
| ID 14 | History of Furniture and Decorative Arts | 3 |
| Total Units | | 9 |

Interior Design Website (http://mtsac.edu/interiordesign)

The Interior Design program is accredited by the Interior Design – National Kitchen and Bath Association NKBA.

Contact:

Interior Design – National Kitchen and Bath Association NKBA 687 Willow Grove St Hackettstownm, NJ 07847 1(800) 843-6522 https:// www.nkba.org/educators/college/accreditation.aspx

Program Learning Outcomes

Upon successful completion of this program, a student will:

- successfully use critical thinking in the utilization of materials in a space.
- · accurately specify materials based on use.
- successfully demonstrate craftsmanship skills in the presentation of materials.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Interior Design - Level II

Business Division

Certificate T0304

The Interior Design - Level II Certificate builds upon the Level I coursework to provide students with intermediate skills that will lead to a career in interior design. There is a focus on design process including drawing and presentations skills, model-making, sketching, computer applications, and the planning of space and studio design. Students will prepare professional portfolios to strengthen career perspectives. This certificate may aid in the student's search for an entry-level position as an assistant to a designer, library coordinator, or sales personnel for interior design products.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| Completion of the | e Interior Design - Level I coursework | 9 |
| PLUS | | |
| Completion of the | e Interior Design - Level II coursework | 24 |
| Total Units | | 33 |

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| Interior Design - | Level I coursework | |
| ID 10 | Introduction to Interior Design | 2 |
| ID 10L | Introduction to Interior Design Laboratory | 1 |
| ID 12 | Materials and Products for Interior Design | 3 |
| ID 14 | History of Furniture and Decorative Arts | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Interior Design - | Level II coursework | |
| ID 20 | Color and Design Theory I | 3 |
| ID 21 | Color and Design Theory II | 3 |
| ID 22 | Design Drawing for Interior Design | 3 |
| ID 23 | Computer Aided Drawing for Interior Design I | 3 |
| ID 25 | Space Planning for Interior Design I | 3 |
| ID 26 | Space Planning for Interior Design II | 3 |
| ID 27 | Rapid Visualization | 3 |
| ID 29 | Interior Design Studio I | 3 |
| Total Units | | 24 |

11.24

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| ID 50 | Interior Design Specialized Topics | 1 |
| ID 99 | Special Projects in Interior Design | 1-3 |

Interior Design Website (http://mtsac.edu/interiordesign)

The Interior Design program is accredited by the Interior Design – National Kitchen and Bath Association NKBA.

Contact:

Interior Design – National Kitchen and Bath Association NKBA 687 Willow Grove St Hackettstownm, NJ 07847 1(800) 843-6522 https:// www.nkba.org/educators/college/accreditation.aspx Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Interior Design - Level III

Business Division

Certificate T0305

The Interior Design: Level III Certificate builds upon the Level II coursework to provide students with advanced skills that will enhance their Interior Design careers. There is a focus on building systems, lighting, advanced computer applications, business practices and studio design. Students will prepare professional portfolios to strengthen career perspectives. This certificate may aid in the student's search for an intermediate position as an assistant to a designer, library coordinator, or a specialization in the field of interior design.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| Completion of the | e Interior Design - Level I coursework | 9 |
| PLUS | | |
| Completion of the | e Interior Design - Level II coursework | 24 |
| PLUS | | |

| Completion of th | e Interior Design - Level III coursework | 17 |
|-------------------|---|-------|
| Total Units | | 50 |
| Course Prefix | Course Name | Units |
| Interior Design - | Level I coursework | |
| ID 10 | Introduction to Interior Design | 2 |
| ID 10L | Introduction to Interior Design Laboratory | 1 |
| ID 12 | Materials and Products for Interior Design | 3 |
| ID 14 | History of Furniture and Decorative Arts | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Interior Design - | Level II coursework | |
| ID 20 | Color and Design Theory I | 3 |
| ID 21 | Color and Design Theory II | 3 |
| ID 22 | Design Drawing for Interior Design | 3 |
| ID 23 | Computer Aided Drawing for Interior Design I | 3 |
| ID 25 | Space Planning for Interior Design I | 3 |
| ID 26 | Space Planning for Interior Design II | 3 |
| ID 27 | Rapid Visualization | 3 |
| ID 29 | Interior Design Studio I | 3 |
| Total Units | | 24 |
| Course Prefix | Course Name | Units |
| Interior Design - | Level III coursework | |
| ID 31 | Building Systems for Interior Design | 3 |
| ID 32 | Lighting Design and Theory for Interior Design | 3 |
| ID 34 | Computer Aided Drawing for Interior Design II | 3 |
| ID 36 | Portfolio Development for Interior Design | 3 |
| or ID 37 | Business Practices for Interior Design | |
| ID 38 | Internship in Interior Design | 2 |
| ID 39 | Interior Design Studio II | 3 |
| Total Units | | 17 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| ID 50 | Interior Design Specialized Topics | 1 |
| ID 99 | Special Projects in Interior Design | 1-3 |

Interior Design Website (http://mtsac.edu/interiordesign)

The Interior Design program is accredited by the Interior Design – National Kitchen and Bath Association NKBA.

Contact:

Interior Design – National Kitchen and Bath Association NKBA 687 Willow Grove St Hackettstownm, NJ 07847 1(800) 843-6522 https:// www.nkba.org/educators/college/accreditation.aspx Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Interior Design Kitchen and Bath Specialization

Business Division

Certificate T0306

The Kitchen and Bath Specialization coursework builds upon the Level III Certificate to provide students with specialized skills in the area of Kitchen and Bath Design and is accredited by the national Kitchen and Bath Association. Students will strengthen career perspectives and develop work to incorporate into a professional portfolio. This certificate may aid in the student's search for an intermediate position as an assistant to a Kitchen and Bath Designer. Students completing this certificate and meeting the eligibility requirements will quality to sit for the academic portion of the Certified Kitchen Designer (CKD) and Certified Bath Designer (CBD) upon graduation to earn the Associate Kitchen and Bath Designer (AKBD) designation.

Required Courses

| • | | |
|--|---|------------------|
| Course Prefix | Course Name | Units |
| Completion of the | e Interior Design - Level I coursework | 9 |
| PLUS | | |
| Completion of the | e Interior Design - Level II coursework | 24 |
| PLUS | | |
| Completion of the | e Interior Design - Level III coursework | 17 |
| PLUS | | |
| Completion of Kit | tchen and Bath Specialization coursework | 9 |
| Total Units | | 59 |
| | | |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name Level I coursework | Units |
| | | Units 2 |
| Interior Design - L | Level I coursework | |
| Interior Design - L ID 10 | Level I coursework Introduction to Interior Design | 2 |
| Interior Design - L ID 10 ID 10L | Level I coursework Introduction to Interior Design Introduction to Interior Design Laboratory | 2 |
| Interior Design - L ID 10 ID 10L ID 12 | Level I coursework Introduction to Interior Design Introduction to Interior Design Laboratory Materials and Products for Interior Design | 2 1 3 |
| Interior Design - L ID 10 ID 10L ID 12 ID 14 | Level I coursework Introduction to Interior Design Introduction to Interior Design Laboratory Materials and Products for Interior Design | 2 1 3 3 |

| Interior Design - L | _evel II coursework | |
|---------------------|---|----|
| ID 20 | Color and Design Theory I | 3 |
| ID 21 | Color and Design Theory II | 3 |
| ID 22 | Design Drawing for Interior Design | 3 |
| ID 23 | Computer Aided Drawing for Interior Design I | 3 |
| ID 25 | Space Planning for Interior Design I | 3 |
| ID 26 | Space Planning for Interior Design II | 3 |
| ID 27 | Rapid Visualization | 3 |
| ID 29 | Interior Design Studio I | 3 |
| Total Units | | 24 |

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| Interior Design - | Level III coursework | |
| ID 31 | Building Systems for Interior Design | 3 |
| ID 32 | Lighting Design and Theory for Interior Design | 3 |

| ID 34 | Computer Aided Drawing for Interior Design II | 3 |
|------------------|--|-------|
| ID 36 | Portfolio Development for Interior Design | 3 |
| or ID 37 | Business Practices for Interior Design | |
| ID 38 | Internship in Interior Design | 2 |
| ID 39 | Interior Design Studio II | 3 |
| Total Units | | 17 |
| Course Prefix | Course Name | Units |
| Kitchen and Bath | n Specialization coursework | |
| ID 40 | Kitchen and Bath Studio I | 3 |
| ID 41 | Kitchen and Bath Studio II | 3 |
| ID 48 | Internship in Kitchen and Bath | 3 |
| Total Units | | 9 |
| Course Prefix | Course Name | Units |
| Recommended E | Electives | |
| ID 50 | Interior Design Specialized Topics | 1 |
| ID 99 | Special Projects in Interior Design | 1-3 |

Interior Design Website (http://mtsac.edu/interiordesign)

The Interior Design Kitchen and Bath Specialization program is accredited by the Interior Design – National Kitchen and Bath Association NKBA.

Contact:

Interior Design – National Kitchen and Bath Association NKBA 687 Willow Grove St Hackettstownm, NJ 07847 1(800) 843-6522 https:// www.nkba.org/educators/college/accreditation.aspx

Program Learning Outcomes

Upon successful completion of this program, a student will:

• Successfully design a kitchen based NKBA standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Interior Landscaping

Natural Sciences Division

Certificate L0106

This certificate program is designed to give students basic skills in the design, installation, and maintenance of interior plants that are used in residences, offices, hotels, malls, restaurants, and other locations. All courses are applicable for degree requirements in Ornamental Horticulture, Parks and Sports Turf Management, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------------|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 15 | Interior Landscaping | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 32 | Landscaping and Nursery Management | 3 |
| AGOR 64 | Irrigation - Drip and Low Volume | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Demonstrate professional conduct in the industry.
- · Demonstrate competency in one on one customer relations.
- Give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Introduction to Computer Information Technology

Business Division Certificate E0712

The Introduction to Computer Information Technology certificate is designed to prepare students for careers that require the understanding and use of computer technology. The certificate offers a balanced set of classes that enables students to become proficient with business software such as Word, Excel and Access; implement security techniques to protect computer systems from malware, maintain a computer using utility programs, and create web sites. Emphasis is placed on developing formatted documents using spreadsheets to enter, calculate and graph data; using a database to store and retrieve data and to create forms, reports and queries; protecting a computer's hardware and software, and using HTML and web page editors to create and publish multimedia web sites. Students will demonstrate the ability to use software to solve business problems and create commercial web sites. Although the completion of this certificate may not gualify a student for a job in the computer industry, it would complement a degree such as business or engineering that requires computer skills.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------|-------|
| CISB 11 | Computer Information Systems | 3.5 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Tatal Units | | 7 |

Total Units

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Know the four primary operations of a computer and the hardware that performs these operations.
- Be able to define the following internet terms: Internet, World Wide Web, browser, IP address, URL.
- Be able to identify five ways to protect a computer from harmful attacks.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

iOS Programming

Business Division

Certificate E0410

This curriculum is designed for returning CIS professionals with several years experience or current students who have completed CIS courses.

The iOS Programming certificate will give students skills that are necessary to obtain jobs in the area of mobile programming, that is used more and more in the industry. Students will learn different software packages for developing iOS applications as well as general programming skills.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| CISP 31 | Programming in C++ | 3 |
| CISP 31L | Programming in C++ Laboratory | 0.5 |
| CISP 52 | Mobile Device Programming | 3 |
| CISP 52L | Mobile Device Programming Laboratory | 0.5 |
| CISP 53 | iOS Programming | 3 |
| CISP 53L | iOS Programming Laboratory | 0.5 |
| Total Units | | 13 |

Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Landscape and Park Maintenance

Natural Sciences Division

Certificate L0357

This certificate program is designed to give students basic skills in the maintenance and landscape of parks. All courses are applicable for degree requirements in Ornamental Horticulture, Parks and Sports Turf Management, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |
| AGOR 75 | Urban Arboriculture | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- formulate and implement a complete Integrated Pest Management program for a specific site.
- · demonstrate professional conduct in the industry.
- · give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Landscape Construction

Natural Sciences Division Certificate L0393 This certificate is designed to give students the necessary skills to be proficient in landscape construction. Students will learn about irrigation systems, construction fundamentals and hardscape applications as well as landscape contract law.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| AGOR 72 | Landscape Hardscape Applications | 3 |
| AGOR 73 | Landscaping Laws, Contracting, and Estimating | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · prepare and implement a Home Improvement Contract
- evaluate a site and develop a functional design that meets client criteria
- demonstrate fundamentals of operating tractors and equipment covered in class
- identify and correctly use the proper tool needed for landscape projects

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Landscape Design - Level I

Natural Sciences Division Certificate L 0368

This certificate program is designed to give students basic skills needed as a landscape designer. All courses are applicable for degrees in Ornamental Horticulture, Parks and Sports Turf Management, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 13 | Landscape Design | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- evaluate a site and develop a functional design that meets client criteria
- identify and correctly use the proper tool needed for landscape projects.
- · explain the binomial method of plant nomenclature.
- give a professional quality oral presentation
- evaluate the soil conditions at an existing site and make specific recommendations for the immediate and long-term correction of all problems

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Landscape Design - Level II

Natural Sciences Division

Certificate T0396

This certificate is designed to give students advanced skills in landscape design, including computer aided drafting and advanced horticultural knowledge. Landscape Design 1 Certificate requirements must be met prior to obtaining this certificate. The courses in Landscape Design II are designed to enable students to prepare for exciting careers in the essential and diverse horticulture profession. Careers in nursery management, retail garden centers, landscape design, installation and maintenance, arboretum and botanic gardens, arboriculture, interior landscaping, education, and research are just some options. This certificate is part of the comprehensive agricultural sciences program. The program is unique in that most courses provide hands-on experience and are designed to give the student a combination of practical skills and technical knowledge.

Required Courses

AGOR 72

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| Completion of the | e Landscape Design - Level I coursework | 18 |
| PLUS | | |
| Landscape Desig | n - Level II coursework | 18 |
| Total Units | | 36 |
| Course Prefix | Course Name | Units |
| Landscape Desig | n - Level I Coursework | |
| AGOR 1 | Horticultural Science | 3 |
| AGOR 13 | Landscape Design | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| Total Units | | 18 |
| Course Prefix | Course Name | Units |
| Landscape Desig | n - Level II Coursework | |
| AGOR 14 | Advanced Landscape Design | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |

Landscape Hardscape Applications

3

| AGOR 73 | Landscaping Laws, Contracting, and | 3 |
|-------------|------------------------------------|----|
| | Estimating | |
| Total Units | | 18 |

Total Units

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · evaluate a site and develop a functional design that meets client criteria.
- · identify and correctly use the proper tool needed for landscape projects.
- · explain the binomial method of plant nomenclature.
- · give a professional quality oral presentation.
- · evaluate the soil conditions at an existing site and make specific recommendations for the immediate and long-term correction of all problems.
- · make a professional landscape design presentation to a customer.
- · be technically proficient at computer aided design (cad).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Landscape Equipment Technology

Natural Sciences Division

Certificate L0358

This certificate program is designed to give students basic skills to seek employment in equipment repair at golf courses, rental yards, and small equipment repair shops. All courses are applicable to the Equipment Technology Degree.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------|-------|
| AGOR 52 | Hydraulics | 3 |
| AGOR 53 | Small Engine Repair I | 3 |
| AGOR 54 | Small Engine Repair II | 3 |
| AGOR 55 | Diesel Engine Repair | 3 |
| AGOR 56 | Engine Diagnostics | 3 |
| AGOR 57 | Power Train Repair | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Learn engine disassembly, evaluation of components, and reassembly of small air-cooled gasoline engine.
- Demonstrate professional conduct in the industry.
- · Give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Landscape Irrigation

Natural Sciences Division Certificate L0110

This certificate program is designed to give students basic skills in irrigation design, repair, installation, water management, and troubleshooting. A student could seek employment with a landscape contractor, schools, parks, and cities. All courses are applicable for degree requirements in Ornamental Horticulture, Parks and Sports, Turf Management, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |
| AGOR 64 | Irrigation - Drip and Low Volume | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Evaluate a site and develop a functional design that meets client criteria
- · Demonstrate professional conduct in the industry
- · Give a professional quality oral presentation

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Livestock Production Management

Natural Sciences Division

Certificate E0363

This certificate program is designed to give students basic skills in livestock production management for employment opportunities on farms, ranches, and agriculture sales and services. All courses are applicable for degree requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| AGLI 14 | Swine Production | 3 |
| AGLI 17 | Sheep Production | 3 |
| AGLI 30 | Beef Production | 3 |
| AGLI 34 | Livestock Judging and Selection | 2 |
| AGLI 97 | Artificial Insemination of Livestock | 2 |
| Total Units | | 13 |

Animal Sciences Website (http://www.mtsac.edu/animal)

Program Learning Outcomes

Upon successful completion of this course, a student will:

- · be technically proficient.
- · be able to design a comprehensive production/business plan for various livestock species.
- · address animals welfare requirement when designing and implementing a livestock management system.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

LVN 30-Unit Option – Career Mobility Track

Technology and Health Division Certificate E1202

In keeping with Section 1429 of the Board of Registered Nursing Rules and Regulations, completion of this certificate program entitles the student to apply for examination for licensure as a Registered Nurse in the State of California. This option is specifically designed for California licensees. Other states do not have this provision in their laws; therefore, endorsement for licensure may not be granted.

A certificate of completion is awarded at the end of the course of study. The student who elects to complete the 30-Unit Option track is not a graduate of the Associate in Science Degree Nursing Program at Mt. San Antonio College. Individuals who complete this track are not eligible to return to the college at a later date to complete a degree in nursing. LVN applicants must declare their educational goal at the time of application (30-Unit or Associate Degree). This decision is not subject to change at a later date.

Prerequisite Courses

| Course Prefix | Course Name | Units |
|--------------------|---------------------------------------|-------|
| Human Anatomy, | including a laboratory component. | 4 |
| Human Physiolog | gy, including a laboratory component. | 4 |
| Microbiology, incl | uding a laboratory component. | 4 |

Non-course Requirements

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for MATH 51
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a current, active California Licensed Vocational Nurse license.
- 6. A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes.
- 7. Current Healthcare Provider CPR certification
- 8. Criminal background check and drug screening must be completed prior to any patient contact
- 9. Nursing 70: Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70: Role Transition – Due to the clinical component of NURS 70, applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background Check, and drug testing prior to the start of class.)

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| NURS 5 | Psychiatric Nursing ¹ | 3 |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5 |
| NURS 9 | Leadership in Nursing | 1 |
| NURS 10 | Medical-Surgical Nursing: Integration/ Regulation | 4 |
| NURS 11 | Preceptorship in Nursing | 2 |
| Total Units | | 15 |

PSYC 1A must be completed prior to entrance into NURS 5.

Nursing Website (http://www.mtsac.edu/nursing)

Selection Process

Students applying for admission to the Nursing Program are required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure

1

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established and the Admission Assessment Test has been passed, students will enter on a first come first served basis.

- 1. Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
- 2. Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges.
 - b. If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus.
 - c. Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions & Records Office).
 - d. Due to specific college deadlines for International Student application, please inform the Counseling/Educational Advisor that this applies to you.
 - e. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands

- Perform prolonged, extensive, or considerable standing/ walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers

- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

(may be corrected with adaptive device)

- · Color vision: ability to distinguish and identify colors
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- · Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- · Subject to many interruptions
- · Requires judgment/action which could result in death of a patient
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission into the Nursing program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

REGARDING LICENSURE

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offender crimes, acts involving narcotics, dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure, should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at www.rn.ca.gov (http://www.rn.ca.gov).

Contact:

California Board of Registered Nursing 1747 North Market Boulevard, Suite 150 Sacramento, CA 95834 (916) 322-3350 www.rn.ca.gov (http:// www.rn.ca.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be technically competent
- · Be employed or seeking employment in the field or a related field
- Demonstrate effective geriatric patient education for a neurological / endocrine patient.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Mammography

Technology and Health Division Certificate E0398

The Mammography certificate program at Mt. SAC is a two semester certificate program available to current Mt. SAC Radiologic Technology (RT) program students. The program provides a complete educational experience for those RT students who wish to expand their skills into the study in the theory and practice of mammography. Students will have the opportunity to learn and develop competence in patient care, communication skills, critical thinking, and technical skills that will prepare the student to become a competent entry level Mammographer. The program curriculum is designed to meet the mammography educational training requirements set forth by the FDA Mammography Quality Standards Act (MQSA), the California Department of Public Health Services- Radiologic Health Branch (RHB), and the American Registry of Radiologic Technologists (ARRT). The educational standards established by the American Society of Radiologic Technologists (ASRT) are also incorporated into the curriculum. Educational activities include lecture, laboratory activities, and hands-on clinical training at a clinical site.

The program includes:

- MQSA and RHB 40 hours of documented training specific to mammography requirement
- · ARRT 16 hour structured education requirement
- · Eight hours of digital mammography training
- MQSA hands-on clinical experience requirements (25 supervised mammograms)
- Course work in breast anatomy/physiology, patient care, mammography procedures, positioning, compression, interventional procedures, imaging of patients with breast implants, pathology, image evaluation, instrumentation, technique, physics, and quality assurance/quality control

All didactic courses will be offered on campus. Clinical training will be conducted at affiliated healthcare institutions (days and times will vary depending on clinical education site).

Upon completion of the program, the student receives a certificate of completion from Mt. San Antonio College. Current Diagnostic CA Radiologic Technologists (CRT's) will be eligible to sit for the CA state certification in Mammographic Radiologic Technology examination. In addition, the program will prepare the student for the ARRT Mammography certification exam.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| RAD 3C | Clinical Experience 3C | 7.5 |
| RAD 4 | Clinical Experience 4 | 4.5 |
| RAD 40 | Mammography Principles and Procedures | 3 |
| Total Units | | 15 |

Mammography Website (http://www.mtsac.edu/radiologic/ mammography)

Admission Requirements

The Mammography Certificate Program has special admission requirements and limited enrollment. Applicants are responsible

for ensuring that all admission requirements below are met, and all documents are submitted on time.

1. Applicant must be currently enrolled as a second year student in Mt. SAC's Radiologic Technology (RT) Program.

• If a student withdraws from the RT program for any reason, the student cannot continue in the Mammography program. State law forbids clinical practice in mammography for students who are not currently enrolled in a Diagnostic RT program.

2. Complete and submit a Mammography Program Application. Applications are available on the Mt. SAC Mammography Program website and in the Technology & Health Division Office, Bldg 28A, Room 101E.

3. Provide a current copy of Cardiopulmonary Resuscitation (CPR) certification with program application

- CPR card must be American Heart Association: BLS Healthcare Provider, valid 2 years
- Students must maintain current CPR certification throughout program

4. Submit a copy of RT competency ruler providing evidence of the following with application:

- · Competency in 30/40 mandatory procedures
- Competency in 4/9 elective procedures

5. Complete all other clinical site requirements if applicable and submit documentation

6. Deliver your completed application, copy of CPR card, copy of RT ruler, and clinical requirements to the Technology & Health Division Office, Bldg 28A Room 101E or the Radiologic Technology Department, Bldg 67A Room 127A by application deadline. Only complete applications will be considered.

7. Attend a mandatory orientation meeting with the Radiologic Technology Department. You will be contacted with date and time of orientation once you have been admitted.

Selection

Selection of applicants is based upon the completion of admission requirements and the date of application. Only completed applications will be considered for admission.

Program Completion Requirements

All students in the Mammography Program MUST complete all the program course requirements before a certificate documenting completion will be awarded. Applicants must follow program curriculum as defined at the time of acceptance to the program. Once the graduate is certified as a Diagnostic CRT, the graduate will be eligible to sit for the CA state certification in Mammographic Radiologic Technology examination. In addition, the program will prepare the student for the ARRT Mammography certification exam.

Working environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases

- Exposed to hazardous agent, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- May be required to handle emergency or crisis situations
- · Subject to many interruptions
- · Requires decisions/actions critical to patient safety
- · Exposed to products containing latex

Required Skills and Physical Abilities

- 1. Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
- 2. Lift arms above the head to move the x-ray tube assembly.
- Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
- 4. Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
- Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
- 6. Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.
- 7. Function adequately under stressful situations related to technical and procedural standards of patient care situations.
- 8. Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from individuals remote from the location of the student.
- 9. Speak English clearly enough to explain and direct procedural information to patients, and to communicate with physicians, technical staff, and faculty.
- 10. Calculate and select proper technical exposure factors according to the individual needs of the patient's condition and requirements of the procedure with speed and accuracy.
- View and evaluate the recorded images of a radiograph for the purpose of identifying proper patient positioning, accurate procedural sequencing, proper exposure (and/or "s" number), and other established technical qualities.

English Language Skills

Although proficiency in English is not a criterion for admission into the Radiologic Technology Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Develop workforce readiness skills
- · Apply accurate positioning skills and provide appropriate patient care
- · Select optimal technical factors
- · Utilize appropriate radiation protection and ALARA principles

- Demonstrate academic and technical competence as an entry-level Mammographer
- · Communicate effectively with patients, clinical staff and peers
- Demonstrate effective written and verbal communication skills in didactic and clinical settings
- Use critical thinking skills in both routine and non-routine clinical situations
- · Adapt standard procedures for non-routine patients
- Analyze images to determine diagnostic quality and make modifications as needed
- · Exhibit professional work ethic, behavior and attitude
- · Abide by the ASRT code of ethics
- Provide compassionate patient care
- · Use professional judgment when working with patients and others
- · Identify the advantage of belonging to professional organizations
- Understand the need for continued professional development and growth
- · Participate in professional development activities
- Pass the California state certification exam in Mammographic Radiologic Technology
- Secure employment as a Mammographer within one year of program completion

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Manufacturing Foundation

Technology and Health Division

E0421

This certificate provides a foundation of basic skills for employment in a variety of entry-level manufacturing positions.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| MFG 140 | Shop Practices | 3 |
| MFG 150 | Manual Machining I | 3 |
| MFG 155 | Manual Machining II | 2 |
| MFG 160 | Introduction to Mechanical Principles | 3 |
| Total Units | | 11 |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be technically competent
- Be employed or seeking employment in the field or a related field
- Demonstrate ability perform basic mill and lathe setup and operation and machine a simple industry representative component from a 2D print

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Manufacturing Technology

Technology and Health Division

Certificate T0918

The Certificate in Manufacturing Technology is designed to prepare the student for entrance into the manufacturing field in one of the machining occupations such as manual and computer numerical control (CNC) machinists, machinery technicians, or machinist apprentices, computer aided design (CAD) operators, draftsmen, or design engineers, and computer aided manufacturing (CAM) machine programmers. This program provides students with a broad foundation in common manufacturing processes such as injection molding, vacuum forming, sheet metal, casting processes, and laser cutting. Graduates may enter the manufacturing field in areas dealing with production, research and development, tool and die construction, mold making, or computerized manufacturing. Laboratory practice utilizes industrial types of equipment and precision measuring instruments to provide training in the various machining occupations. This certificate covers setup and tooling procedures and part certification upon completion of the metal removing process. It includes instruction on industry-based CAD and CAM methodologies and all types of lathes, mills, grinders, and specialized equipment such as CNC. Supplementary instruction is also provided in mechanical literacy, bench work, layout, inspection process, blueprint reading, metal composition, heat treatment, assembly procedures, jig and fixture design, and construction.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|--|-------|
| MFG 110 | Introduction to CAD | 4 |
| MFG 120 | CAD for Manufacturing | 4 |
| MFG 130 | Manufacturing Processes and Materials | 3 |
| MFG 140 | Shop Practices | 3 |
| MFG 150 | Manual Machining I | 3 |
| MFG 155 | Manual Machining II | 2 |
| MFG 160 | Introduction to Mechanical Principles | 3 |
| MFG 210 | Advanced CAD | 3 |
| MFG 220 | Computer Aided Manufacturing II | 3 |
| MFG 250 | Introduction to CNC Programming | 3 |
| MFG 260 | Intermediate CNC | 3 |
| Three (3) units o | f Work Experience | 3 |
| EDT 89 | Engineering Design Technology Work Experience | |
| Total Units | | 37 |

Manufacturing Website (http://www.mtsac.edu/manufacturing)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be technically competent
- · Be employed or seeking employment in the field or a related field
- Demonstrate ability to create a CAD model, 2D print or fabricate a part from a 2D print using manual or CNC methods

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Marketing Management

Business Division Certificate L0510

Students completing this Marketing Management certificate will have gained practical world business knowledge and experience. In addition, completers of the certificate will have learned to use some of the latest business computer software.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSS 35 | Professional Selling | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| BUSS 50 | Retail Store Management and Merchandising | 3 |
| BUSS 79 | Work Experience in Marketing Management | 1 |
| BUSS 85 | Special Issues in Marketing | 2 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 21.5 |

Business Administration Website (http://www.mtsac.edu/ businessadministration)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- List the characteristics of a successful salesperson.
- · Have developed a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

MasterCAM

Technology and Health Division Certificate E0927

This certificate provides a strong background in MasterCAM.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| MFG 130 | Manufacturing Processes and Materials | 3 |
| MFG 220 | Computer Aided Manufacturing II | 3 |
| EDT 89 | Engineering Design Technology Work Experience | 1-2 |
| Total Units | | 7-8 |

Manufacturing Website (http://www.mtsac.edu/manufacturing)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · be technically competent
- · be employed or seeking employment in the field or a related field
- demonstrate ability to create a toolpath for an industry representative part from a 2D print using CAM software

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Mental Health Technology -Psychiatric Technician

Technology and Health Division

Certificate T1279

Upon completion of the required courses, a Certificate in Psychiatric Technician will be awarded. In addition, it prepares the student to take the California State Board Examination for Psychiatric Technicians.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| MENT 40 | Introduction to Interviewing and Counseling | 3 |
| MENT 56 | Medical-Surgical Nursing for Psychiatric Technicians | 9 |
| MENT 56L | Medical-Surgical Clinical Experience | 4 |
| MENT 58D | Advanced Medical-Surgical Nursing and Pharmacology for PT | 4 |
| MENT 58L | Advanced Medical-Surgical Nursing for Psychiatric Technicians Clinical | 1.5 |
| MENT 70 | Introduction to Psychiatric Technology | 1.5 |
| MENT 70L | Introduction to Psychiatric Technology Clinical Technicians | 2 |
| MENT 72 | Nursing Care of the Developmentally Disabled Person | 7 |
| MENT 72L | Nursing Care of the Developmentally Disabled Person - Clinical | 5.5 |
| MENT 73L | Psychiatric Nursing for Psychiatric Technicians Clinical | 5.5 |
| MENT 73T | Psychiatric Nursing for Psychiatric Technicians | 6 |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| Total Units | | 52 |

Special Information

To remain in the program, students must maintain a "C" or better grade in all courses. The student will qualify to take the California State Board Examination upon completion of all the above courses.

Mental Health Department Website (http://www.mtsac.edu/mentalhealth)

Special Information

Additional general education courses needed for completion of the Associate in Science degree requirements are listed in the Mt. San Antonio College Catalog, but are not required to qualify the student for the California State Board Examination.

To remain in the program, students must maintain a "C" or better grade in all courses.

The student will qualify to take the California State Board Examination upon completion of all the above courses.

Entrance Requirements

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- Be a high school graduate or equivalent. (All students who have taken coursework outside of the United States must have their transcript evaluated. Foreign transcripts will not be accepted without the evaluation.)
- 2. Be 18 years of age.
- 3. File a college application and be accepted as a student at Mt. San Antonio College.
- 4. Submit an electronic application (preferred) for the Mental Health/ Psychiatric Technician Program to techandhealth@mtsac.edu or a paper application to the Health Careers Resource Center (HCRC) (909) 274-4788. All applications are dated upon receipt in the Health Careers Resource Center. A program begins each winter and summer intersession with mandatory orientations each fall and spring. Orientations are unique to each cohort, so if a student does not begin classes the intersession following the orientation, then a new orientation must be attended before starting. Students that do not attend the mandatory orientation will not be eligible to start the following intersession even if an orientation had previously been attended.
- 5. Eligibility for ENGL 1A is currently required to take PSYC 1A, which is a co-requisite for courses within the program. If you have already taken PSYC 1A at Mt. SAC, or an equivalent course at another institution within the past five years this may be waived. If PSYC 1A (or equivalent course) was taken at another institution, send an official transcript from the institution where it was taken to Admissions and Records Office at Mt. SAC. An additional set of transcripts (may be unofficial) must be delivered to the Health Careers Resource Center. If there is no previously-approved course deemed as equivalent by the Psychology Department at Mt. SAC, the student will be required to request a variance for the course from the Psychology Department at Mt. SAC.

Testing is administered by the Assessment Center, located in the Student Service Center. Arrangements should be made with them to schedule a date and time to take the English Placement Test, if required. The Assessment Center is open Monday through Friday. You may contact them a (909) 594-5611, Ext. 4265.

- 6. For students who possess a college degree, the English Placement Test may not be required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One transcript must be sent to the Health Careers Resource Center and the other to the Admission and Records Office.
- 7. Forward two official transcripts of all coursework complete (high school, nursing school, and other than Mt. San Antonio College courses.) One transcript must be sent to the Health Careers Resource Center and the other to the Admissions and Records Office. NOTE: Concerning Entrance Requirements 'e', 'f', and 'g", if the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. The Health Careers Resource Center processes applications for multiple programs, therefore indicate in the mailing address the program for which your transcript is being sent. EXAMPLE: Mt. San Antonio College Health Careers Resource Center
 - Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399
- 8. A physical examination showing proof of specific immunizations (including seasonal influenza as appropriate), and consent/disclaimer for Hepatitis A/B vaccine is required of all candidates prior to

beginning classes. Students must provide proof that he/she does not have tuberculosis. These requirements are in accordance with the healthcare agency policy that insure that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation or GED is required. Malpractice insurance may also be required.

- 9. Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician. Certain facilities require Live Scanning (both Department of Justice (DOJ) and Federal Bureau of Investigation (FBI)). Live Scans are unique to each facility. Multiple Live Scans will be required throughout the program. Clinical facilities have the right to exclude students from attending clinical at their site based on Live Scan results. The program cannot guarantee that an alternate clinical site will be available for the student to meet clinical hour obligations.
- 10. All students may be required to pass an additional background check prior to entering the clinical education phase.

Selection Procedure

The College will make every effort to notify the applicant of acceptance by mail no less than one month prior to the beginning of the program. All applicants are required to meet the Essential Functions for Success in the Mental Health Technology - Psychiatric Technician Program (listed below).

Essential Functions for Success in the Mental Health Technology-Psychiatric Technician Program:

Physical Demands:

- Perform prolonged, extensive, or considerable standing, walking, lifting positioning, pushing, and transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- · Possess the ability to lift and carry at least 125 pounds
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less

Hearing: able to recognize a full range of tones

Working Environment

- · May be exposed to infectious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids, and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle potentially dangerous emergency or crisis situations or patients
- · Subject to many interruptions

- · Requires decisions and actions related to end of life issues
- Exposed to products containing latex
- Requires judgment and action which could affect the life or death of a patient.

English Language Skills:

Although proficiency in English is not a criterion for admission into the Mental Health Technology - Psychiatric Technician Program, students must be able to speak, write, and read English to ensure patient safety and to complete classes successfully.

The Mental Health Technology - Psychiatric Technician program is accredited by the Board of Vocational Nursing and Psychiatric Technicians.

Contact:

Board of Vocational Nursing and Psychiatric Technicians, Suite 205 2535 Capital Oaks Drive Sacramento, CA 95833 (916) 263-7800 bvnpt@dca.ca.gov

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate the ability to provide client care, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate nursing skills, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to successfully intervene at all levels of client escalation/de-escalation, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to support client efforts to achieve and maintain optimal mental health, within scope of practice, to successfully practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to safely administer medications, with scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to participate in all areas of treatment plan development, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to develop and achieve entry-level professional goals.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Microcomputer Productivity Software

Business Division Certificate E0336

The Microcomputer Productivity Software certificate is designed to prepare students for careers that require extensive knowledge of business-related productivity software. The certificate offers a balanced set of classes that enables students to maintain and troubleshoot a Windows operating system, learn advanced features of Excel, Access and PowerPoint software; and create commercial Web sites. Emphasis is placed on customizing, optimizing and securing a Windows-based computer; developing spreadsheet pivot tables and macros; using Access to create and maintain database tables, forms, reports and queries; creating and manipulating PowerPoint slide shows with multimedia content; and using HTML and web page editors to create and publish Web sites. Students will demonstrate the ability to use software to store and retrieve data, solve business problems and create commercial Web sites. Opportunities available after the completion of this certificate include systems analyst, administrative assistant and office manager.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISB 15 | Microcomputer Applications | 3.5 |
| CISB 21 | Microsoft Excel | 3 |
| CISB 51 | Microsoft PowerPoint | 3 |
| CISD 11 | Database Management - Microsoft Access | 3 |
| CISD 11L | Database Management - Microsoft Access Laboratory | 0.5 |
| CISN 21 | Windows Operating System | 3 |
| Total Units | | 16 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Properly configure Microsoft's operating system to stay secure while interacting with internetworks.
- Effectively use the printer configuration utility to install and test a printing device.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Nursery Management

Natural Sciences Division

Certificate L0107

This certificate program is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry. All courses are applicable for degree requirements in Ornamental Horticulture, Park and Sports Turf Management, Equipment Technology, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 2 | Plant Propagation/Greenhouse | 3 |
| | Management | |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 32 | Landscaping and Nursery Management | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 64 | Irrigation - Drip and Low Volume | 3 |
| Total Units | | 18 |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to demonstrate professional conduct.
- · Be technically proficient.
- · Be able to give a professional quality oral presentation.

Nutrition

Business Division

Certificate E0353

This certificate is designed to give students basic knowledge and skills in nutrition science, food science, food preparation, and food safety and sanitation. The courses prepare students for entry-level employment as nutrition assistants, community nutrition workers, and dietary service workers in clinical, community, long-term care, and institutional foodservice worksites.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| HRM 52 | Food Safety and Sanitation | 1.5 |
| NF 1 | Introduction to Nutrition as a Career | 1.5 |
| NF 20 | Principles of Food with Laboratory | 3 |
| NF 25 | Introduction to Nutrition Science | 3 |
| or NF 25H | Introduction to Nutrition Science - Honors | |
| NF 28 | Cultural and Ethnic Foods | 3 |
| Choose one from | n the following: | 1-3 |
| NF 12 | Sports Nutrition | |
| NF 40 | Healthy American Cuisine | |
| NF 81 | Cooking for Your Heart and Health | |
| NF 82 | Vegetarian Cuisine | |
| NF 91 | Work Experience in Nutrition and Dietetics | |
| Total Units | | 13-15 |

Nutrition and Foods Website (http://www.mtsac.edu/nutrition)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Demonstrate proficiency in practical skills, such as using kitchen equipment and appropriate technology properly.
- Be able to use acquired knowledge and skills to evaluate potential transfer and internship sites.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Paramedic

Technology and Health Division Certificate T0425

This Paramedic Program is accredited by CAAHEP (Committee on Accreditation of Allied Health Education Programs) and approved by the Los Angeles County Department of Health Services as meeting and exceeding the minimum standards as specified in Title 22 of the California Code of Regulations and the federal Department of Transportation national standard curriculum. It is designed to train paramedics to work on ambulances and in the fire service.

The Emergency Medical Technician-Paramedic (EMT-P) is an individual who is educated and trained during an intensive (32-hours per week) didactic program lasting 16 weeks. This is followed by five (5) weeks of Clinical Internship in a hospital (40-hours per week), and then eight (8)

weeks of Field Externship as a practicing Paramedic under the guidance and supervision of a Paramedic Field Preceptor.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| EMS 10 | Anatomy and Physiology for Paramedics | 3 |
| EMS 20 | Emergency Cardiac Care for Paramedics | 1.5 |
| EMS 30 | Pharmacology for Paramedics | 3 |
| EMS 40 | Cardiology for Paramedics | 3 |
| EMS 50 | Paramedic Skills Competency | 5 |
| EMS 60 | EMS Theory for Paramedics | 8.5 |
| EMS 70 | Paramedic Clinical Internship | 3 |
| EMS 80 | Paramedic Field Externship | 9 |
| Total Units | | 36 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| ADJU 1 | The Administration of Justice System | 3 |
| FIRE 1 | Fire Protection Organization | 3 |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| SOC 1 | Sociology | 3 |
| or SOC 1H | Sociology - Honors | |

The Emergency Medical Services faculty recommend that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Emergency Medical Services to help you determine which of those electives would best suit your career plans.

Special Information

To remain in the program, students must maintain a grade of "C" (80 percent) or better in all courses and receive a grade of "C" (80 percent) or better on all final exams. Before starting in clinical rotations, students must pass a criminal background check. Upon successful completion of the required courses, students are given a certificate documenting completion of the Paramedic program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Public Safety Programs Website (http://www.mtsac.edu/public-safety-programs)

Paramedic Program Readmission Policy

If the student fails any of the co-requisite courses, EMS 10 (http:// catalog.mtsac.edu/archive/2017-2018/search/?P=EMS%2010) - EMS 60 (http://catalog.mtsac.edu/archive/2017-2018/search/?P=EMS%2060), he/she will be dropped from the program. If the student wishes to repeat the program, a Success Plan and Contract will be developed with the faculty to increase the student's chances of success prior to re-entry. If the student withdraws or is dismissed from the program a second time, he/she will not be allowed to reenter the Paramedic Program at Mt. SAC.

Application Requirements

In addition to meeting Mt. San Antonio College academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. Be an EMT currently certified in California.
- 2. Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT (approximately 1,200 hours) within the last 2 years.
- 3. File a College application and be accepted as a student at Mt. San Antonio College.
- 4. Submit an application for the Paramedic Program to the Health Science Programs Office (909) 274-5051. All applications are dated upon receipt in the Health Science Programs Office. The Paramedic Program begins two (2) times per year.
- Take the Assessment of Written English, Math Placement test, and Degrees of Reading Power tests. Placement examinations will be individually assessed to determine eligibility for the pre-courses. The placement tests are administered by the Assessment Center, located in the Student Services Center.
- Successful completion of EMS 1 (http://catalog.mtsac.edu/ archive/2017-2018/search/?P=EMS%201) Paramedic Fundamentals and Selection.
- 7. Forward two (2) official transcripts of all coursework completed (high school, EMT, Fire Science, and college work other than Mt. San Antonio College courses). One transcript must be sent to the Health Science Programs Office; the other to the Admissions and Records Office. For students who possess a college degree, the English placement examination is not required. However, it will be necessary for students to obtain two (2) official copies of the college transcript showing the degree issued. One official transcript must be sent to the Technology and Health Division Office; the other to the Admissions and Records Office. **Note:** If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.
- A physical examination, proof of certain immunizations, a criminal background check, and drug test are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program.

All applicants are expected to meet the essential functions for success in the paramedic program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- · Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- · Emergency medical scene and patient management
- · Subject to many interruptions
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Requires decisions/actions related to end of life issues
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission into the EMT-P program, students are encouraged to be able to speak, write and read English to complete classes successfully and ensure safety for themselves and others.

The Emergency Medical Technician - Paramedic program is accredited by the Committee on Accreditation of Allied Health Education Programs (CAAHEP).

Contact:

Committee on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, Florida 33756 (727) 210-2350 www.caahep.org (http://www.caahep.org)

Program Learning Outcomes

Upon successful completion of this program, a students will be able to:

- Demonstrate competence in the assessment, diagnosis and treatment of both medical and trauma patients in accordance with the EMT level Scope of Practice.
- · Be employable and seek employment in the field or a related field.
- · Demonstrate EMT basic skills competency at a certification level.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Park Management

Natural Sciences Division

Certificate L0365

This certificate program is designed to give students skills required for entry level positions in park management. Emphasis is placed on positions that are at the city and county level. All courses are applicable for degree requirements.

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGOR 4 | Park Management | 3 |
| AGOR 5 | Park Facilities | 3 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |

| AGOR 75 | Urban Arboriculture | 3 |
|-------------|---------------------|----|
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student:

- · Will be technically proficient
- Will demonstrate professional conduct in the industry
- Will be able to give a professional quality oral presentation

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Pet Science

Natural Sciences Division

Certificate T0104

This certificate program is designed to give students basic skills in production and marketing of pets at the wholesale and retail level. All courses are applicable for degree requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AGAN 1 | Animal Science | 3 |
| AGAN 2 | Animal Nutrition | 3 |
| AGAN 51 | Animal Handling and Restraint | 3 |
| AGAN 94 | Animal Breeding | 3 |
| AGLI 96 | Animal Sanitation and Disease Control | 3 |
| AGPE 70 | Pet Shop Management | 3 |
| AGPE 71 | Canine Management | 3 |
| AGPE 72 | Feline Management | 3 |
| AGPE 73 | Tropical and Coldwater Fish Management | 2 |
| AGPE 74 | Reptile Management | 2 |
| AGPE 76 | Aviculture - Cage and Aviary Birds | 3 |
| BUSM 66 | Small Business Management | 3 |
| Total Units | | 34 |

Animal Sciences Website (http://www.mtsac.edu/animal)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be able to identify the common species & breeds of livestock.
- · Be able to identify common breeds of small animals.
- Be able to address animal welfare requirements when designing and implementing an animal management system.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Photography - Level I

Arts Division

Certificate L0348

This multi-level certificate program is designed to prepare students for employment in the field of photography. The Photography Level I offers the core skills necessary for employment as an entry-level Photography Assistant.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| PHOT 9 | Digital Image Editing for Photographers | 3 |
| PHOT 10 | Basic Digital and Film Photography | 3 |
| PHOT 11A | Intermediate Photography | 3 |
| PHOT 11B | Digital Capture Workflow | 3 |
| PHOT 14 | Commercial Lighting | 3 |
| PHOT 20 | Color Photography | 3 |
| Choose one from | the following: | 3 |
| PHOT 12 | Photographic Alternatives | |
| PHOT 16 | Fashion and Editorial Portrait Photography | |
| PHOT 18 | Portraiture and Wedding Photography | |
| Total Units | | 21 |

Photography Website (http://www.mtsac.edu/photography)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- know core skills of standard shutter speeds, creative use of shutter, standard apertures and creative use of aperture.
- use critical thinking skills and be able to analyze and assess photographic situations, solve technical problems, and overcome creative challenges as they arise in the production of high quality still and motion imagery for professional, editorial, commercial or fine art applications.
- design and construct still and motion imagery that can communicate ideas or narratives effectively for commercial, editorial, or fine art purposes.
- have the knowledge and skills pertinent to the operation of a freelance photography business and sound business practices in the trade.
- usefully participate in the collaborative environment of commercial art fields.
- analyze, discuss, and critique the various technical, aesthetic, conceptual, historical and cultural aspects of a photograph.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Photography - Level II

Arts Division

Certificate T0349

This multi-level certificate program is designed to prepare students for employment in the field of photography. This Photography Level II certificate offers additional expertise for students to develop specific skills needed for employment in photography, art, cinema/animation, communications, industrial arts, graphics, and journalism.

| Course Prefix | Course Name | Units |
|------------------|------------------------------------|-------|
| Completion of th | e Photography - Level I coursework | 21 |
| PLUS | | |

| Completion of th | e Photography - Level II coursework | 13 |
|--|---|-------|
| Total Units | | 34 |
| Course Prefix | Course Name | Units |
| Photography - L | evel I Coursework | |
| PHOT 9 | Digital Image Editing for Photographers | 3 |
| PHOT 10 | Basic Digital and Film Photography | З |
| PHOT 11A | Intermediate Photography | 3 |
| PHOT 11B | Digital Capture Workflow | Э |
| PHOT 14 | Commercial Lighting | Э |
| PHOT 20 | Color Photography | 3 |
| Choose one from | n the following: | 3 |
| PHOT 12 | Photographic Alternatives | |
| PHOT 16 | Fashion and Editorial Portrait Photography | |
| PHOT 18 | Portraiture and Wedding Photography | |
| Total Units | | 21 |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name evel II Coursework | Units |
| | evel II Coursework | Units |
| Photography - L | evel II Coursework | |
| Photography - L Choose one fron | evel II Coursework n the following: Laboratory Studies: Beginning Black and | |
| Photography - L Choose one fron PHOT 1A | evel II Coursework In the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and | |
| Photography - L Choose one from PHOT 1A PHOT 1B | evel II Coursework In the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography | |
| Photography - L Choose one from PHOT 1A PHOT 1B PHOT 1C | evel II Coursework the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography Laboratory Studies: Studio Photography Laboratory Studies: Computer Applications | |
| Photography - L Choose one from PHOT 1A PHOT 1B PHOT 1C PHOT 1D | evel II Coursework the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography Laboratory Studies: Studio Photography Laboratory Studies: Computer Applications | |
| Photography - L Choose one from PHOT 1A PHOT 1B PHOT 1C PHOT 1D PLUS | evel II Coursework the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography Laboratory Studies: Studio Photography Laboratory Studies: Computer Applications in Photography Photocommunication | 1 |
| Photography - L Choose one from PHOT 1A PHOT 1B PHOT 1C PHOT 1D PLUS PHOT 17 | evel II Coursework the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography Laboratory Studies: Studio Photography Laboratory Studies: Computer Applications in Photography Photocommunication Advertising Photography | 1 |
| Photography - L Choose one from PHOT 1A PHOT 1B PHOT 1C PHOT 1D PLUS PHOT 17 or PHOT 30 | evel II Coursework the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography Laboratory Studies: Studio Photography Laboratory Studies: Computer Applications in Photography Photocommunication | 3 |
| Photography - L Choose one from PHOT 1A PHOT 1B PHOT 1C PHOT 1D PLUS PHOT 17 or PHOT 30 PHOT 28 | evel II Coursework the following: Laboratory Studies: Beginning Black and White Photography Laboratory Studies: Advanced Black and White Photography Laboratory Studies: Studio Photography Laboratory Studies: Computer Applications in Photography Photocommunication Advertising Photography Photography Portfolio Development Studio Business Practices for Commercial | 1 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------|-------|
| AHIS 1 | Understanding the Visual Arts | 3 |
| or ARTB 1 | Understanding the Visual Arts | |
| PHOT 15 | History of Photography | 3 |

Photography Website (http://www.mtsac.edu/photography)

Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Photography Digital Technician

Arts Division

Certificate L0351

This certificate program is designed to give students specific skills to prepare them for employment in the commercial photographic industry

as a digital technician, digital assistant, digital imaging specialist, or photography assistant.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| PHOT 9 | Digital Image Editing for Photographers | 3 |
| PHOT 10 | Basic Digital and Film Photography | 3 |
| PHOT 11A | Intermediate Photography | 3 |
| PHOT 11B | Digital Capture Workflow | 3 |
| PHOT 14 | Commercial Lighting | 3 |
| PHOT 20 | Color Photography | 3 |
| PHOT 24 | Advanced Digital Image Editing for Photographers | 3 |
| PHOT 26 | Video for Photographers | 3 |
| Total Units | | 24 |

Recommended Elective

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| PHOT 29 | Studio Business Practices for Commercial Artists | 3 |

Photography Website (http://www.mtsac.edu/photography)

Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Photography Video Production

Arts Division

Certificate L0413

This certificate integrates still photography and video capture, for the student that is interested in the field of photography coupled with video production. It is designed to prepare students for entry-level employment as both a photographer and videographer. The goals of this certificate are to prepare students to combine still and video to produce quality imagery by working collaboratively using digital camera still and video capture, lighting, composition, storytelling, audio, and image editing and output techniques to produce visuals that effectively communicate ideas or narratives for commercial, editorial, or fine art purposes.

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| PHOT 9 | Digital Image Editing for Photographers | 3 |
| or ARTC 100 | Graphic Design I | |
| PHOT 10 | Basic Digital and Film Photography | 3 |
| PHOT 11A | Intermediate Photography | 3 |
| PHOT 14 | Commercial Lighting | 3 |
| PHOT 26 | Video for Photographers | 3 |
| R-TV 22 | Editing for Film and Television | 3 |
| R-TV 29 | Introduction to Audio Production for Film and Television | 3 |
| Choose one elect | ive from the following: | 3 |
| ANIM 172 | Motion Graphics, Compositing and Visual Effects | |
| ARTC 272 | Motion Graphics, Compositing and Visual Effects | |

| PHOT 17 | Photocommunication | |
|-------------|-------------------------|----|
| PHOT 30 | Advertising Photography | |
| R-TV 14 | Media Aesthetics | |
| Total Units | | 24 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| PHOT 28 | Photography Portfolio Development | 3 |
| or ARTC 290 | Portfolio | |
| or ANIM 148 | Demo Reel | |
| PHOT 29 | Studio Business Practices for Commercial Artists | 3 |
| or R-TV 15 | Broadcast Law and Business Practices | |

Photography Website (http://www.mtsac.edu/photography)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Produce quality imagery.
- · Understand visual communication
- · Understand business practices
- · Work as a collaborator
- · Discuss and critique imagery

Pilates Professional Teacher Training: Cadillac, Chair, Auxiliary

Certificate E0399

The certificate prepares students for careers as Pilates instructors/ trainers in professional Pilates studios, dance studios, corporate fitness facilities, wellness centers, public/private health clubs and private training in a home studio. The curriculum meets the industry standards for a comprehensive Pilates teacher training technique course. The program covers Pilates theory, anatomy , pedagogy and the exercise repertoire for the Mat, Reformer, Cadillac, Wunda Chair, Barrels, Ped-a-Pul and accessory equipment. The certificate includes lecture, self-study and practice teaching hours and after completing the certificate, students will be qualified to teach all levels of the Pilates exercise repertoire in Mat and apparatus, including special populations and remedial programs.

Required Courses

| Course Prefix | Course Name | Units |
|----------------------------|---|-------|
| DNCE 39A | Alignment and Correctives I | 0.5 |
| DN-T 27 | Theory and Principles of Pilates | 3 |
| DN-T 28 | Functional Anatomy for Pilates | 2 |
| DN-T 29 | Teaching Pilates Mat Repertoire | 1.5 |
| DN-T 30 | Teaching Pilates Reformer Repertoire | 1.5 |
| DN-T 32 | Teaching Pilates Cadillac and Wunda Chair Repertoire | 1.5 |
| DN-T 33 | Teaching Pilates Ped-a-Pul, Barrels and Auxiliary Equipment Repertoire | 1.5 |
| DN-T 34 | Pilates Teaching-Cadillac, Wunda Chair & Auxiliary Equipment | 3 |
| Choose two cou selected | rses. Must take 1 unit from each course | 2 |
| DNCE 41 | Pilates I | |

| | DNCE 42 | Pilates II | |
|----|------------|-------------|------|
| | DNCE 43 | Pilates III | |
| Тс | otal Units | | 16.5 |

Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/kinesiology)

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Pilates Professional Teacher Training: Mat and Reformer

Certificate E0315

The Pilates Professional Teacher Training Certificate prepares students for careers as Pilates instructors/trainers in professional Pilates studios, dance studios, corporate fitness facilities, wellness centers, public/ private health clubs and private training in a home studio. The certificate meets the industry standards for a Pilates Teacher Training technique course in Mat and Reformer, and includes lecture, self-study, and teaching hours. The program includes Pilates theory, anatomy, the Mat and Reformer repertoire of exercises and after completing the certificate, students will be qualified to teach all levels of the Pilates exercises in Mat and Reformer, including special populations and remedial programs.

Required Courses

| Course Prefix | Course Name | Units |
|------------------------------|--|-------|
| DN-T 27 | Theory and Principles of Pilates | 3 |
| DN-T 28 | Functional Anatomy for Pilates | 2 |
| DN-T 29 | Teaching Pilates Mat Repertoire | 1.5 |
| DN-T 30 | Teaching Pilates Reformer Repertoire | 1.5 |
| DN-T 31 | Pilates Teaching-Mat and Reformer | 3 |
| KIN 24 | Applied Kinesiology | 2 |
| DNCE 39A | Alignment and Correctives I | 0.5 |
| DNCE 41 | Pilates I | 1 |
| Choose two cours selected | ses. Must take 1 unit from each course | 2 |
| DNCE 40 | Conditioning Through Dance | |
| DNCE 42 | Pilates II | |
| DNCE 43 | Pilates III | |
| Tatal Unita | | 16 F |

Total Units

16.5

Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/kinesiology)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Develop a portfolio of lesson plans, a teaching resume and a personal Pilates brand.
- Teach, with attention to alignment, Pilates exercises while incorporating the Pilates concepts and principles.
- Develop a logue of the Pilates mat and Reformer exercises that includes muscular analysis, objectives, cueing and modifications (approximately 150 exercises).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Programming In C++

Business Division

Certificate L0794

The Programming in C++ Certificate prepares students for a career in computer programming. The certificate offers a balanced set of classes that provides students the skills to create business-oriented applications in C++, maintain a Microsoft Access database, and learn the tools and techniques required of a systems analyst. Emphasis is placed on object-oriented programming techniques, creating database tables, forms, reports and queries, and implementing a computer system using the system development life cycle methodology. Students will demonstrate the ability to create business applications, write effective program documentation, demonstrate program troubleshooting skills, and build a computer system using the steps of the system development life cycle. Career opportunities after the completion of this certificate include programmer and systems analyst.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISB 11 | Computer Information Systems | 3.5 |
| CISD 11 | Database Management - Microsoft Access | 3 |
| CISD 11L | Database Management - Microsoft Access Laboratory | 0.5 |
| CISM 11 | Systems Analysis and Design | 3.5 |
| CISN 21 | Windows Operating System | 3 |
| CISP 31 | Programming in C++ | 3 |
| CISP 31L | Programming in C++ Laboratory | 0.5 |
| CISP 34 | Advanced C++ Programming | 3 |
| CISP 34L | Advanced C++ Programming Laboratory | 0.5 |
| Total Units | | 20.5 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Create event-driven program, using Windows Forms.
- Connect C++ program to the database and incorporate SQL statements into C++ code.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Programming In Visual Basic

Business Division

Certificate E0335

The Programming in Visual Basic Certificate is designed to prepare students for a career in computer programming. The certificate offers a balanced set of classes that provides students the client, server and database programming skills required by industry. Emphasis is placed on object-oriented programming applications, web based applications, and implementing ASP.NET, ADO.NET and .NET Framework for reusable software components. Students will demonstrate the ability to design and implement a Visual Basic application that contains the client interface, the server implementation and the database. Opportunities available after the completion of this certificate include programming for systems, mobile applications, integration of systems and web applications.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISB 11 | Computer Information Systems | 3.5 |
| CISD 11 | Database Management - Microsoft Access | 3 |
| CISD 11L | Database Management - Microsoft Access Laboratory | 0.5 |
| CISM 11 | Systems Analysis and Design | 3.5 |
| CISP 11 | Programming in Visual Basic | 3 |
| CISP 11L | Programming in Visual Basic Laboratory | 0.5 |
| CISP 14 | Advanced Visual Basic .NET | 3 |
| CISP 14L | Advanced Visual Basic.NET Laboratory | 0.5 |
| Total Units | | 17.5 |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Display data from related database tables.
- Update a SQL Server database.
- · Create a web site that accesses data from a database.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Public Works/Landscape Management

Natural Sciences Division

Certificate B0120

This program is a partnership between Mt. San Antonio College and Citrus College, with course requirements that must be taken at each college (courses in Public Works are offered through Citrus, while horticulture/landscape courses are offered at Mt. SAC). Upon completion of the requirements, students may apply for and receive a Certificate of Achievement from either of the two colleges.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|--------------------------------------|-------|
| Offered at Citrus | College: | |
| PUB 150 | Public Works I | 3 |
| PUB 158 | Municipal and Urban Tree Care | 3 |
| Offered at Mt. Sa | n Antonio College: | |
| AGOR 1 | Horticultural Science | 3 |
| AGOR 39 | Turf Grass Production and Management | 3 |
| Total Units | | 12 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will:

• Be able to give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Radio Broadcasting: Behind-the-Scenes

Arts Division

Certificate L0391

The Radio Broadcasting Behind-the-Scenes Certificate of Achievement provides expertise in a variety of behind-the-scenes specialties. Students gain practical hands-on-experience in the broadcasting industry through an off-campus internship at a radio station, production studio or other broadcasting facility.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------------|---|-------|
| Core Courses | | |
| R-TV 01 | Introduction to Electronic Media | 3 |
| R-TV 10 | Radio Programming and Producer Techniques | 3 |
| R-TV 11A | Beginning Radio Production | 3 |
| R-TV 11B | Advanced Radio Production | 3 |
| R-TV 15 | Broadcast Law and Business Practices | 3 |
| R-TV 96A | Campus Radio Station Lab: Studio Procedures and Equipment Operations | 1 |
| R-TV 96B | Campus Radio Station Lab: Disc Jockey & News Anchor/Reporter Skills | 1 |
| R-TV 96C | Campus Radio Station Lab: Hosting and Management Skills | 1 |
| R-TV 97A | Radio/Entertainment Industry Seminar | 1 |
| R-TV 97B | Radio/Entertainment Industry Work Experience | 1 |
| Required Electiv | ves | |
| Choose three u | nits from the following: | 3 |
| R-TV 05 | Radio-TV Newswriting | |
| R-TV 09 | Broadcast Sales and Promotion | |
| R-TV 17 | Internet Radio and Podcasting | |
| R-TV 31 | History of Radio DJs | |
| R-TV 32 | Social Media in Broadcasting | |
| R-TV 35 | Pop Culture in the Media | |
| R-TV 99 | Special Projects in Broadcasting and Entertainment Industry | |
| R-TV 101 | Work Experience in Broadcast Entertainment | |
| Total Units | | 23 |

Total Units

Radio Broadcasting Website (http://www.mtsac.edu/radio)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Work in production, programming or a variety of other behind-thescenes positions at a commercial radio station
- Use studio equipment to record and edit a pre-recorded piece
- · Operate the studio equipment required to produce a live broadcast
- · Use social media during a live radio show to engage with the audience
- · Develop and implement ideas for a radio show
- · Develop a format for a radio station

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Radio Broadcasting: Behind-the-Scenes - Level I

Arts Division

Certificate E0372

This multi-level certificate program prepares students to enter the field of broadcasting in a behind-the-scenes capacity. The Level I Radio Broadcasting Behind-the-Scenes Certificate provides an overview of the fundamental skills essential to the field as well as the business and legal aspects of the industry.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| R-TV 01 | Introduction to Electronic Media | 3 |
| R-TV 09 | Broadcast Sales and Promotion | 3 |
| R-TV 10 | Radio Programming and Producer Techniques | 3 |
| R-TV 11A | Beginning Radio Production | 3 |
| R-TV 15 | Broadcast Law and Business Practices | 3 |
| Total Units | | 15 |

Radio Broadcasting Website (http://www.mtsac.edu/radio)

Program Learning Outcomes

Upon successful completion of this program, a student will:

 feel they have the skills required to either transfer to a 4-year program or obtain an entry-level behind-the-scenes job in the entertainment industry.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Radio Broadcasting: On-Air

Arts Division

Certificate L0402

The Radio Broadcasting On-Air Certificate of Achievement provides additional expertise in a selected variety of on-air specialties. Students gain practical hands-on experience in the industry through an off-campus internship at a station, studio or other broadcasting facility.

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| R-TV 01 | Introduction to Electronic Media | 3 |
| R-TV 02 | On-Air Personality Development | 3 |
| R-TV 05 | Radio-TV Newswriting | 3 |
| R-TV 07A | Beginning Commercial Voice-Overs | 3 |
| R-TV 11A | Beginning Radio Production | 3 |
| R-TV 15 | Broadcast Law and Business Practices | 3 |
| R-TV 96A | Campus Radio Station Lab: Studio Procedures and Equipment Operations | 1 |
| | | |
| R-TV 96B | Campus Radio Station Lab: Disc Jockey & News Anchor/Reporter Skills | 1 |

| R-TV 96C | Campus Radio Station Lab: Hosting and Management Skills | 1 |
|------------------|--|----|
| R-TV 97A | Radio/Entertainment Industry Seminar | 1 |
| R-TV 97B | Radio/Entertainment Industry Work Experience | 1 |
| Choose 3 units f | from the following: | 3 |
| R-TV 03 | Sportscasting and Reporting | |
| R-TV 04 | Broadcast News Field Reporting | |
| R-TV 06 | Broadcast Traffic Reporting | |
| R-TV 09 | Broadcast Sales and Promotion | |
| R-TV 10 | Radio Programming and Producer Techniques | |
| R-TV 11B | Advanced Radio Production | |
| R-TV 17 | Internet Radio and Podcasting | |
| R-TV 31 | History of Radio DJs | |
| R-TV 32 | Social Media in Broadcasting | |
| R-TV 35 | Pop Culture in the Media | |
| R-TV 99 | Special Projects in Broadcasting and Entertainment Industry | |
| R-TV 101 | Work Experience in Broadcast Entertainment | |
| Total Units | | 26 |

Radio Broadcasting Website (http://www.mtsac.edu/radio)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Work as a DJ or newscaster on a commercial radio station
- · Use the studio equipment to record and edit a pre-recorded piece
- · Plan, set-up and perform a radio station remote as an on-air personality
- · Use social media during a live radio show to engage with the audience
- · Operate the studio equipment required for a live radio broadcast

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Radio Broadcasting: On-Air - Level I

Arts Division

Certificate E0371

This multi-level certificate program prepares students to enter the field of on-air radio broadcasting and related areas. The Level I Radio Broadcasting On-Air Certificate provides an overview of fundamental skills essential to the field as well as the business and legal aspects of the industry.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|----------------------------------|-------|
| R-TV 01 | Introduction to Electronic Media | 3 |
| R-TV 02 | On-Air Personality Development | 3 |
| R-TV 05 | Radio-TV Newswriting | 3 |
| R-TV 11A | Beginning Radio Production | 3 |

| R-TV 15 | Broadcast Law and Business Practices | 3 |
|-------------|--------------------------------------|----|
| Total Units | | 15 |

Radio Broadcasting Website (http://www.mtsac.edu/radio)

Program Learning Outcomes

Upon successful completion of this program, a student will:

· feel they have the skills required to either transfer to a 4-year program or obtain an entry-level behind-the-scenes job in the entertainment industry.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Real Estate Broker Certificate

Business Division Certificate L0352

Prior to taking the California Real Estate Broker's License Exam, the applicant must have completed five (5) required courses: BUSR 51, BUSR 52, BUSR 53, BUSR 81 and either BUSR 55 or BUSA 11. In addition, the applicant must take three (3) additional courses approved by the California Department of Real Estate: BUSR 50, BUSR 57, BUSR 59, BUSR 60, BUSR 62, BUSR 76, BUSL 18, PLGL 40, BUSR 55 if not taken in the mandatory category above or BUSA 11 if not taken in the mandatory category above for a total of eight (8) courses. The Real Estate Broker Certificate contains all eight courses necessary to satisfy the educational requirements to take the California Real Estate Broker Examination.

| Course Prefix | Course Name | Units |
|------------------|--|---------|
| BUSR 51 | Legal Aspects of Real Estate | 3 |
| BUSR 52 | Real Estate Practice | 3 |
| BUSR 53 | Real Estate Finance | 3 |
| Choose one from | n the following: | 3-3.5 |
| BUSR 55 | Real Estate Economics | |
| BUSR 81 | Appraisal: Principles and Procedures | |
| BUSA 11 | Fundamentals of Accounting | |
| Choose three co | urses from the following: | 9 |
| BUSL 18 | Business Law | |
| or BUSL 18 | HBusiness Law - Honors | |
| BUSR 50 | Real Estate Principles | |
| BUSR 57 | Income Tax Aspects of Real Estate Investments | |
| BUSR 59 | Real Estate Property Management | |
| BUSR 60 | Real Estate Investment Planning | |
| BUSR 62 | Mortgage Loan Brokering and Lending | |
| BUSR 76 | Escrow Procedures I | |
| PLGL 40 | Landlord-Tenant Law | |
| Choose any of th | e following courses if not taken above: | |
| BUSA 11 | Fundamentals of Accounting | |
| BUSR 55 | Real Estate Economics | |
| Total Units | | 21-21.5 |

Real (http://www.mtsac.edu/realestate)Estate Website (http:// www.mtsac.edu/realestate)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Have the requisite knowledge to pass the California Real Estate Brokers Exam
- · Meet or exceed the state average for success or passage on the state licensing exam.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Real Estate Sales

Business Division

Certificate E0342

Prior to taking the California Real Estate Salespersons Examination, an applicant must complete three (3) college level courses specified by the California Department of Real Estate. Two of these classes are mandated: BUSR 50 and BUSR 52. The third class may be any real estate or real estate related course specified by The California Department of Real Estate. The Real Estate Sales Certificate includes these three classes for a total of 9 units needed to apply for the California Real Estate Salesperson's Examination.

Required Courses

| Course Prefix | Course Name | Units |
|----------------|--|-------|
| BUSR 50 | Real Estate Principles | 3 |
| BUSR 52 | Real Estate Practice | 3 |
| Choose one cou | rse from the following: | 3-5 |
| BUSA 7 | Principles of Accounting - Financial | |
| BUSA 11 | Fundamentals of Accounting | |
| BUSC 1A | Principles of Economics - Macroeconomics | |
| BUSL 18 | Business Law | |
| BUSR 51 | Legal Aspects of Real Estate | |
| BUSR 53 | Real Estate Finance | |
| BUSR 55 | Real Estate Economics | |
| BUSR 57 | Income Tax Aspects of Real Estate Investments | |
| BUSR 59 | Real Estate Property Management | |
| BUSR 60 | Real Estate Investment Planning | |
| BUSR 62 | Mortgage Loan Brokering and Lending | |
| BUSR 76 | Escrow Procedures I | |
| BUSR 81 | Appraisal: Principles and Procedures | |
| PLGL 40 | Landlord-Tenant Law | |
| Total Units | | 9-11 |

Real (http://www.mtsac.edu/realestate)Estate Website (http:// www.mtsac.edu/realestate)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Have the requisite knowledge to pass the California Real Estate Sales Exam.
- · Meet or exceed the state average for success or passage on the state licensing exam.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

School Age Child - Specialization

Business Division Certificate T1314

The School Age Child-Specialization Certificate provides specialized skills and knowledge for working with school age children. This certificate exceeds the Title 22 requirements for a fully gualified teacher in school age programs. This skill set also prepares the student for positions as elementary tutors or classroom aides in public school districts.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------------|--|-------|
| Core Courses | | |
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| Choose one from | n the following: | 3 |
| CHLD 10 | Child Growth and Lifespan Development | |
| CHLD 10H | Child Growth and Lifespan Development- Honors | |
| CHLD 11 | Child and Adolescent Development | |
| CHLD 50 | Teaching in a Diverse Society | 3 |
| CHLD 51 | Early Literacy in Child Development | 3 |
| CHLD 62 | Music and Motor Development for Young Children | 3 |
| CHLD 64 | Health, Safety and Nutrition of Children | 3 |
| CHLD 74 | Program Planning for the School Age Child | 3 |
| Required Electiv | es | |
| LERN 49 | Math Skills Review | 3 |
| or MATH 50 | Pre-Algebra | |
| Choose one from | n the following: | 1-3 |
| ENGL 64 | Writing Effective Sentences | |
| ENGL 65 | Grammar Review | |
| LIT 40 | Children's Literature | |
| Total Units | | 31-33 |

¹ - Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at www.mtac.edu/cdc/ immunization/ (http://mtsac.edu/cdc/immunization)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Use a wide array of developmentally appropriate approaches within the school-age care setting and understand the effects on the social, emotional, physical, cognitive and cultural development, of the school a child.
- · Be able to evaluate School Age Program regulations, standards, and policies.

- Understand and use a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect with school age children and support their school assignments.
- Analyze principles of human development theories as they specifically relate to the school-age child's growth and development.
- Understand the importance of developmental domains and academic content areas. Students will use their knowledge and other resources to design, implement, and evaluate schools age activities and curriculum.
- Be grounded in Child Development knowledge (theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each school age child.
- Be able to explore and evaluate community support services and agencies that are available to families, develop referral skills that help children and families access empowering community resources and analyze effective advocacy skills that establish effectual public policies pertaining to children and families.
- Understand theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies.

Sign Language/Interpreting

Humanities and Social Sciences Division Certificate T0801

The Mt. San Antonio College Interpreter Training Program is designed to prepare individuals for careers as Sign Language Interpreters. Interpreters are needed wherever communication happens between the hearing community and the Deaf and hard-of-hearing community. There are an endless number of settings in which this communication takes place. Interpreters are employed by school districts, cruiseship companies, corporations, government agencies, hospitals, colleges and universities, and a vast number of other organizations and private businesses.

Program Preparation: Preparation for the program includes fluency in American Sign Language demonstrated by the completion of SIGN 104, (or the equivalent skill) and English fluency demonstrated by the completion of ENGL 1A.

National Certification: There are many specialties within the field of Sign Language Interpreting, but the focus of this program is on preparing the interpreter generalist. Although requiring some type of certification is becoming more common in California, there are still many job opportunities for the precertified interpreter.

Completing the certificate in Sign Language/Interpreting does not make one a "Certified Interpreter"; however, graduates of this program are encouraged to apply for National Interpreting Certification (NIC) through the Registry of Interpreters for the Deaf (RID) at www.rid.org (http:// www.rid.org).

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------|-------|
| Core Courses | | |
| SIGN 105 | American Sign Language 5 | 4 |
| SIGN 108 | Fingerspelling | 2 |
| SIGN 201 | Introduction to Deaf Studies | 3 |

| SIGN 202 | American Deaf Culture | 3 |
|--------------------------|--|---------|
| SIGN 210 | American Sign Language Structure | 3 |
| SIGN 220 | Translation: American Sign Language And English | 4 |
| SIGN 223 | Principles of Interpreting | 3 |
| SIGN 225 | Ethical Decision Making for Interpreters | 2 |
| SIGN 227 | Cognitive Processing for Interpreters | 4 |
| SIGN 231 | Interpreting | 4 |
| SIGN 232 | Advanced Interpreting | 4 |
| SIGN 239 | Applied Interpreting | 2 |
| Required Elective | s | |
| Choose three cou | rses from the following: | 5-5.5 |
| SIGN 240 | Vocabulary Building for Interpreters | |
| SIGN 250 | Interpreting with Classifiers | |
| SIGN 260 | Video Interpreting | |
| SIGN 299 | Special Projects in Sign Language/ Interpreting | |
| Total Units | | 43-43.5 |

Sign Language/Interpreting Department Website (http://www.mtsac.edu/ sign-language)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Apply Demand Control Schema (DC-S) Theory to the field of Sign Language Interpreting.
- Given a English narrative, successfully give a functional equivalent message in ASL in a simultaneous mode.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Sports Turf Management

Natural Sciences Division

Certificate L0112

This certificate program is designed to provide skills required for students interested in employment at golf courses, race tracks, athletic fields and stadiums, and other high use turf areas. All courses are applicable for degree requirements in Ornamental Horticulture, Park and Sports Turf Management, Equipment Technology, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 39 | Turf Grass Production and Management | 3 |
| AGOR 40 | Sports Turf Management | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to formulate and propose an all-inclusive management program for a sports turf area.
- · Demonstrate professional conduct in the industry.
- · Be able to give a professional quality oral presentation.

Television Crew

Arts Division

Certificate L0354

The Certificate of Achievement in Television Crew will provide students with experience in a variety of production roles and technologies. This course of study is designed to prepare students for entry level jobs in a variety of areas.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|-----------------------------------|-------|
| R-TV 19A | Beginning Video Production | 3 |
| Choose 16 units | from the following: | 16 |
| R-TV 19B | Advanced Video Production | |
| R-TV 20 | Television News Production | |
| R-TV 21 | Remote Multicamera Production | |
| R-TV 22 | Editing for Film and Television | |
| R-TV 23 | Reality Show Production | |
| R-TV 100 | Work Experience in Film and TV | |
| Total Units | | 19 |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Feel that they have an increased possession of the skills required for entry-level work in the entertainment industry.
- Function in three types of production: Narrative (film-style), TV Studio, and live Remote Multicamera production in any role.
- Use communication, artistic and technical skills to collaboratively create programs as part of a team in any role, from writer to editor.
- Use Avid Media Composer to the level necessary for an editing internship.
- Present an ePortfolio containing video and written work to prospective employers, universities and scholarship committees.
- · Apply aesthetic and technical skills in telling a story visually.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Tree Care and Maintenance

Natural Sciences Division

Certificate L0111

This certificate program is designed to give students basic skills in the repair and maintenance of trees. All courses are applicable for degree requirements in Ornamental Horticulture, Park and Sports Turf Management, Equipment Technology, and Integrated Pest Management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 75 | Urban Arboriculture | 3 |
| Total Units | | 18 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be able to identify common landscape trees and woody shrubs.
- · Demonstrate professional conduct in the industry.
- · Be able to give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Web Design

Arts Division

Certificate L0618

This program is designed to provide students with a combination of design and technical skills necessary for entry-level employment as a Web page designer.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ANIM 172 | Motion Graphics, Compositing and Visual Effects | 3 |
| ARTC 100 | Graphic Design I | 3 |
| ARTC 120 | Graphic Design II | 3 |
| ARTC 160 | Typography | 3 |
| ARTC 200 | Web Design | 3 |
| ARTC 220 | Graphic Design IV | 3 |
| ARTD 20 | Design: Two-Dimensional | 3 |
| Total Units | | 21 |

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- Research and interpret information necessary to develop an effective message(s) and strategy for a commercial art assignment.
- Develop and communicate creative, visual solutions for a commercial art assignment.
- Design commercial art products that effectively utilize principles and elements of design.
- Select and use appropriate, industry standard tools and technology to produce commercial art products.
- Present their commercial art products, explaining and defending their strategic choices, creative ideas and design decisions.

Welder - Automotive Welding, Cutting **& Modification**

Technology and Health Division

Certificate T0931

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in automotive welding, cutting and modification. Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in automotive welding.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| WELD 40 | Introduction to Welding ¹ | 2 |
| WELD 50 | Oxyacetylene Welding | 2 |
| WELD 51 | Basic Electric Arc Welding | 2 |
| WELD 53A | Welding Metallurgy | 3 |
| WELD 60 | Print Reading and Computations for Welders | 3 |
| WELD 70A | Beginning Arc Welding | 3 |
| WELD 70B | Intermediate Arc Welding | 3 |
| WELD 70C | Certification for Welders | 3 |
| WELD 80 | Construction Fabrication and Welding | 3 |
| WELD 81 | Pipe and Tube Welding | 3 |
| WELD 91 | Automotive Welding, Cutting and Modification | 1 |
| Total Units | | 28 |

Total Units

Air Conditioning & Welding Website (http://www.mtsac.edu/ airconditioning-welding)

¹ - Note: Any higher level welding courses may be substituted for WELD 40.

Program Learning Outcomes

Upon successful completion of this program, a student will:

- be employed or seeking employment in the field or a related field.
- · be technically competent.
- · be able to perform the required practical projects used in GMAW welding and cutting.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program

Welder - Gas Tungsten Arc Welding

Technology and Health Division

Certificate T0932

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in gas tungsten ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in aluminum, CRES, mild steel and selected exotic metals with specialty skills in gas tungsten ARC welding.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| WELD 40 | Introduction to Welding ¹ | 2 |
| WELD 50 | Oxyacetylene Welding | 2 |
| WELD 51 | Basic Electric Arc Welding | 2 |
| WELD 53A | Welding Metallurgy | 3 |
| WELD 60 | Print Reading and Computations for Welders | 3 |
| WELD 70A | Beginning Arc Welding | 3 |
| WELD 70B | Intermediate Arc Welding | 3 |
| WELD 70C | Certification for Welders | 3 |
| WELD 80 | Construction Fabrication and Welding | 3 |
| WELD 81 | Pipe and Tube Welding | 3 |
| WELD 90A | Gas Tungsten Arc Welding | 3 |
| Total Units | | 30 |

Air Conditioning & Welding Website (http://www.mtsac.edu/ airconditioning-welding)

¹ - Note: Any higher level welding courses may be substituted for WELD 40.

Program Learning Outcomes

Upon successful completion of this program, a student will be able to: .

- · Be technically competent.
- · Be employed or seeking employment in their area or a related area.
- · Solve problems as related to preparing materials prior to welding.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Welder - Licensed

Technology and Health Division Certificate L0930

This program is designed to prepare students for entry-level employment in the broad field of welding, including manufacturing construction, fabrication and repair. Through theoretical and hand-on skills coursework students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| WELD 40 | Introduction to Welding ¹ | 2 |
| WELD 50 | Oxyacetylene Welding | 2 |
| WELD 51 | Basic Electric Arc Welding | 2 |
| WELD 53A | Welding Metallurgy | 3 |
| WELD 60 | Print Reading and Computations for Welders | 3 |
| WELD 70A | Beginning Arc Welding | 3 |
| WELD 70B | Intermediate Arc Welding | 3 |
| WELD 70C | Certification for Welders | 3 |
| WELD 80 | Construction Fabrication and Welding | 3 |

| WELD 81 | Pipe and Tube Welding | 3 |
|-------------|-----------------------|----|
| Total Units | | 27 |

Air Conditioning & Welding Website (http://www.mtsac.edu/ airconditioning-welding)

¹ - Note: Any higher level welding courses may be substituted for WELD 40.

Program Learning Outcomes

Upon successful completion of this program, a student will be able to: .

- · Be technically competent.
- · Be employed or seeking employment in their area or a related area.
- · Identify print views, lines and dimensioning methods.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Welding

Technology and Health Division

Certificate E0919

This program is designed to prepare the student for employment in the broad field of welding and

- 1. leads to occupations in manufacturing and repair; and
- 2. helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certificates. The College is a testing agency for the City of Los Angeles, and is authorized to administer the performance test for the Structural Welding certificate. There is a \$50 charge for students and \$60 for nonstudents to take this test. Topics of the written portion of the test which is administered by the City are reviewed in various welding courses offered by the College.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------------|-------|
| WELD 40 | Introduction to Welding | 2 |
| WELD 70A | Beginning Arc Welding ¹ | 3 |
| WELD 70B | Intermediate Arc Welding | 3 |
| Total Units | | 8 |

¹ - Note: Any higher level welding courses may be substituted for WELD 70A.

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| WELD 60 | Print Reading and Computations for Welders | 3 |
| WELD 70C | Certification for Welders | 3 |

Air Conditioning & Welding Website (http://www.mtsac.edu/ airconditioning-welding)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be prepared to pass the Los Angeles City Structural Steel Exam.
- · Be employed or seeking employment in their area or a related area.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Welding – Semiautomatic Arc Welding

Technology and Health Division

Certificate T0933

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in semiautomatic ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in semiautomatic ARC welding.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| WELD 40 | Introduction to Welding ¹ | 2 |
| WELD 50 | Oxyacetylene Welding | 2 |
| WELD 51 | Basic Electric Arc Welding | 2 |
| WELD 53A | Welding Metallurgy | 3 |
| WELD 60 | Print Reading and Computations for Welders | 3 |
| WELD 70A | Beginning Arc Welding | 3 |
| WELD 70B | Intermediate Arc Welding | 3 |
| WELD 70C | Certification for Welders | 3 |
| WELD 80 | Construction Fabrication and Welding | 3 |
| WELD 81 | Pipe and Tube Welding | 3 |
| WELD 90B | Semiautomatic Arc Welding Process | 3 |
| Total Units | | 30 |

Air Conditioning & Welding Website (http://www.mtsac.edu/ airconditioning-welding)

¹ - Note: Any higher level welding courses may be substituted for WELD 40.

Program Learning Outcomes

- Students will be employed or seeking employment in the area of study or a related area.
- · Students will be technically competent.
- · Students will demonstrate safe operation of welding equipment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Associate Degrees

| Accounting 1 | 25 |
|---|----|
| Administration of Justice | 25 |
| Administrative Assistant1 | 25 |
| Agri-Technology1 | 26 |
| Air Conditioning and Refrigeration1 | 26 |
| Airframe and Aircraft Powerplant Maintenance Technology - Day 1 | 27 |
| Airframe and Aircraft Powerplant Maintenance Technology - Evening 1 | 28 |
| Alcohol/Drug Counseling1 | 29 |
| Animation1 | 30 |
| Applied Laboratory Science Technology (ALST)1 | 31 |
| Architectural Design Concentration 1 | 31 |
| Architectural Technology Concentration1 | 31 |
| Aviation Science1 | 32 |
| | |

В

| Building Automation | . 132 |
|-----------------------------|-------|
| Business: Management | . 133 |
| Business: Retail Management | . 133 |

С

| Child Development | |
|---|-----|
| Commercial Flight | |
| Computer – Database Management Systems | 135 |
| Computer and Networking Technology | |
| Computer Network Administration and Security Management | |
| Computer Programming | |

Ε

| Educational Paraprofessional (Instructional Assistant) | 138 |
|--|-----|
| Electronics and Computer Engineering Technology | 138 |
| Emergency Medical Services | 139 |
| Engineering and Construction Technology | 140 |
| Equipment Technology | 140 |

F

| Fashion Design and Technologies | 141 |
|---------------------------------|-----|
| Fashion Merchandising | 141 |
| Fire Technology | 142 |

G

| 0 | |
|------------------|--|
| General Business | |

Н

| Histologic Technician Training 1 | 143 |
|--|-----|
| Horse Ranch Management 1 | 143 |
| Hospitality and Restaurant Management1 | 144 |
| Human Resource Management1 | 145 |

I

| Industrial Design Engineering | 145 |
|------------------------------------|-----|
| Integrated Pest Management | 146 |
| Interior Design | 146 |
| Interior Design – Kitchen and Bath | 147 |
| International Business | 147 |

L

| Licensed Vocational Nurse to RN | 148 |
|---------------------------------|------|
| Livestock Management | .150 |

Μ

| Manufacturing Technology | 150 |
|---|-----|
| Marketing Management | 151 |
| Mental Health Technology – Psychiatric Technician | 151 |

Ν Nu

| ursing | | | |
|--------|------|------|------|
| | | | |

0

| Р | |
|---------------------------|-----|
| Paralagal/Logal Assistant | 157 |

| Paraleyal/Leyar Assistant | |
|---------------------------------|-----|
| Park and Sports Turf Management | 157 |
| Pet Science | |
| Photography | |
| Psychiatric Technician to RN | 159 |
| Public Health | |

R

| Radio Broadcasting: Behind the Scenes | 162 |
|---------------------------------------|-----|
| Radio Broadcasting: On the Air | 163 |
| Radiologic Technology | 163 |
| Real Estate | 165 |
| Registered Veterinary Technology | |
| Respiratory Therapy | |

S si

| Sign Language/Interpreting | 169 |
|----------------------------|-----|
| Small Business Management | 169 |

T

| Felevision Production | 170 |
|-----------------------|-----|
| | |

| W | |
|---------|--|
| Welding | |

Accounting, AS

Business Division

Degree S0502

The Accounting Program provides many opportunities for students to design a plan for their individual goals through certificate and degree achievements. The associate degree in accounting is intended to prepare students for employment following graduation. The student will learn basic accounting skills combined with an in-depth training in a variety of accounting concepts, preparing the student for entry-level positions, professional advancement in their current job or transfer to a university to pursue a bachelor's degree in accounting.

Earning an Accounting Associate of Science degree will provide the knowledge and skills necessary for accounting jobs in general accounting, cost accounting, payroll, inventory management, asset management, accounts receivable, accounts payable, budgets and forecasting, financial analysis, etc. Students who wish to transfer and obtain a bachelor's degree should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|---------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSA 8 | Principles of Accounting - Managerial | 5 |
| BUSA 21 | Cost Accounting | 3-4.5 |
| or BUSA 58 | Federal Income Tax Law | |
| BUSA 52 | Intermediate Accounting | 3 |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1 |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1 |
| BUSM 20 | Principles of Business | 3 |
| Total Units | | 21-22.5 |

Total Units

Accounting Website (http://www.mtsac.edu/accounting)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · describe the basic accounting system and how it is used to serve business needs,
- · interpret accounting statements,
- · list and explain the foundations upon which business is built and the economic challenges facing the United States

Administration of Justice, AS

Technology and Health Division S0404

The A.S. Degree in Administration of Justice program is intended to prepare students for entry-level employment following graduation. Students desiring a bachelor's degree (transfer program) should consult with a counselor or adviser to discuss transfer of courses. The courses emphasize the modern role of law enforcement and corrections within the criminal justice systems. Written and oral communication skills are a consistent focus. Entry-level employment

opportunities available after completion of this program may include law enforcement as peace officers, corrections officers, custodial officers, non-sworn security and investigations, other non-sworn positions in law enforcement and public service.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| ADJU 1 | The Administration of Justice System | 3 |
| ADJU 2 | Principles and Procedures of the Justice System | 3 |
| ADJU 3 | Concepts of Criminal Law | 3 |
| ADJU 4 | Legal Aspects of Evidence | 3 |
| ADJU 5 | Community Relations | 3 |
| ADJU 68 | Administration of Justice Report Writing | 3 |
| Choose four from | the following: | 12 |
| ADJU 6 | Concepts of Enforcement Services | |
| ADJU 10 | Introduction to Correctional Sciences | |
| ADJU 13 | Concepts of Traffic Services | |
| ADJU 20 | Principles of Investigation | |
| ADJU 38 | Narcotics Investigation | |
| ADJU 59 | Gangs and Corrections | |
| ADJU 74 | Vice Control | |
| SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| SOC 5 | Introduction to Criminology | |
| or SOC 5H | Introduction to Criminology - Honors | |
| Total Units | | 30 |

Administration of Justice Website (http://www.mtsac.edu/justice)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Demonstrate the principals involved in documenting the investigation of criminal activity.
- · Identify and apply legal precedents in field work.
- · Demonstrate familiarity with the social factors related to police interaction with communities.
- · Demonstrate understanding of how criminal codes are used and how statutory law is practically applied.
- · Demonstrate the ability to use technology and other resources to research social and legal aspects of the criminal justice system.
- · Demonstrate the ability to present information in diverse circumstances, with various cultures and communities, involving public and media issues.
- · Understand professional skills related to court testimony, interview, interrogation, and law enforcement nomenclature.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Administrative Assistant, AS

Business Division Degree S0514

This program is intended to prepare students for employment following graduation as administrative assistants, executive assistants, office managers, or other clerical and support staff. Training in a variety of computer and clerical skills is emphasized. Students desiring a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|------------------|--|---------|
| BUSO 25 | Business Communications | 3 |
| BUSO 26 | Oral Communications for Business | 3 |
| CISB 10 | Office Skills | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| CISB 16 | Macintosh Applications | 2 |
| CISB 21 | Microsoft Excel | 3 |
| CISB 31 | Microsoft Word | 3 |
| CISB 51 | Microsoft PowerPoint | 3 |
| Choose one from | the following: | 2-3.5 |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISN 21 | Windows Operating System | |
| CISS 11 | Practical Computer Security | |
| CISW 15 | Web Site Development | |
| Total Units | | 25.5-27 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Create and present a visual slide presentation to include text, graphic objects, design theme, slide transition, and object animation.
- Create a document in which text, paragraphs, and layout are formatted effectively and efficiently using word processing software (Word).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Agri-Technology, AS

Natural Sciences Division Degree S0101

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive Agricultural Sciences program and is unique in that most courses provide hands-on experiences designed to give the students a combination of practical skills and technical knowledge.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. Additional courses needed for completion of the Degree are listed in this catalog. It is recommended that all students consult with the department chairperson, faculty advisor, or counselor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a bachelor's degree should consult with the department chairperson, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| - Course Prefix | Course Name | Units |
|--------------------|---|-------|
| AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | 3 |
| AGAG 91 | Agricultural Calculations | 3 |
| AGAN 1 | Animal Science | 3 |
| AGOR 1 | Horticultural Science | 3 |
| AGOR 32 | Landscaping and Nursery Management | 3 |
| AGOR 56 | Engine Diagnostics | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| Choose three from | n the following: | 9-10 |
| AGLI 14 | Swine Production | |
| AGLI 16 | Horse Production and Management | |
| AGLI 17 | Sheep Production | |
| AGLI 30 | Beef Production | |
| AGOR 24 | Integrated Pest Management | |
| AGOR 62 | Irrigation Principles and Design | |
| AGPE 70 | Pet Shop Management | |
| AGPE 71 | Canine Management | |
| Total Units | | 30-31 |

Animal Sciences Website (http://www.mtsac.edu/animal) Agricultural Sciences Website (http://www.mtsac.edu/agriculture)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to demonstrate an understanding of the interdependence of world agriculture systems.
- · Demonstrate professional conduct in the industry.
- · Be able to give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Air Conditioning and Refrigeration, AS

Technology and Health Division Degree S0909

The Air Conditioning and Refrigeration (AIRC) Degree Program prepares students for entry level employment or for advancement of existing skills/knowledge without requiring any prior knowledge or experience. In addition to exposing students to core topics such as mechanical and electrical fundamentals, the Program includes coursework in heat loads, advanced electrical and mechanical, welding, math, codes and standards, and air properties. Hands-on labs throughout the program expose students to a cross-section of systems and equipment used in the industry.

The Program is designed to prepare the student for employment in the broad field of air conditioning, heating, and refrigeration and leads to occupations in design, manufacturing, operation, sales, distribution, installation, maintenance, repairs and controls. There are no prerequisites and/or enrollment limitations.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AIRC 10 | Technical Mathematics in Air Conditioning and Refrigeration | 2 |
| AIRC 11 | Welding for Air Conditioning and Refrigeration | 2 |
| AIRC 12 | Air Conditioning Codes and Standards | 3 |
| AIRC 20 | Refrigeration Fundamentals | 4 |
| AIRC 25 | Electrical Fundamentals for Air Conditioning and Refrigeration | 5 |
| AIRC 26 | Gas Heating Fundamentals | 2 |
| AIRC 30 | Heat Load Calculations and Design | 4 |
| AIRC 31 | Commercial Electrical for Air Conditioning and Refrigeration | 4 |
| AIRC 32A | Air Properties and Measurement | 1.5 |
| AIRC 34 | Advanced Mechanical Refrigeration | 4 |
| Total Units | | 31.5 |

Air Conditioning and Refrigeration Website (http://www.mtsac.edu/airconditioning)

The Air Conditioning and Refrigeration program is accredited by the Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA).

Contact:

Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA) 2111 Wilson Blvd., Suite 500

Arlington, VA 22201-3001 (703) 524-8800 Contacts: Warren Lupson (AHRI) Wanda Wilkinson (AHRI)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Properly handle refrigerants based on Section 608 of the clean air act.
- Evaluate, troubleshoot, and modify the electrical, mechanical and air side operation of an air conditioning or refrigeration system.
- Perform a residential heat load calculation, select the equipment, and size the ductwork based on ACCA's Manual J8 and Manual D.
- Select equipment and components for commercial refrigeration systems.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Airframe and Aircraft Powerplant Maintenance Technology - Day, AS

Technology and Health Division

Degree S0911

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate in Science degree. Two state-awarded certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and AIRM 65B are equivalent to evening program courses AIRM 95A, AIRM 95B, AIRM 96A, AIRM 96B, AIRM 97A, AIRM 97B, AIRM 98A, and AIRM 98B. Day program courses AIRM 66A and AIRM 66B are equivalent to evening program courses AIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, and AIRM 93B. The evening program courses are offered in 9-week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 65A | Aircraft Powerplant Maintenance Technology | 13 |
| AIRM 65B | Aircraft Powerplant Maintenance Technology: Reciprocating & Turbine | 13 |
| AIRM 66A | Aircraft Airframe Maintenance Structures | 13 |
| AIRM 66B | Airframe Maintenance Technology | 13 |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 71 | Aviation Maintenance Science | 6 |
| AIRM 72 | Aircraft Materials and Processes | 1.5 |
| AIRM 73 | Aircraft Welding | 1.5 |
| Total Units | | 67 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 74 | Aircraft Maintenance Technology - Work Experience | 2 |
| AIRM 80 | Laboratory Studies in Aircraft Maintenance Technology | 0.5 |
| PHYS 1 | Physics | 4 |

Aircraft Maintenance Website (http://www.mtsac.edu/aircraftmaintenance)

The Airframe and Aircraft Powerplant Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA) 800 Independence Avenue, SW Washington, DC 20591 1 (800) 835-5322 www.faa.gov

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Connect learned theory with real-world problems and develop a logical solution to the problem.
- Locate, interpret and apply technical data from industry manuals and apply that technical data to a maintenance situation.
- Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not.
- · Demonstrate proper use of aircraft repair equipment.
- Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Airframe and Aircraft Powerplant Maintenance Technology - Evening, AS

Technology and Health Division Degree S0951

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate in Science degree. Two state-awarded certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day or evening program option. The only difference between the two options is the course numbering and time required to

complete the program. Day program courses AIRM 65A and AIRM 65B are equivalent to evening program courses AIRM 95A, AIRM 95B, AIRM 96A, AIRM 96B, AIRM 97A, AIRM 97B, AIRM 98A, and AIRM 98B. Day program course AIRM 66A and AIRM 66B are equivalent to evening program courses AIRM 90A, AIRM 90B, AIRM 91A, AIRM 91B, AIRM 92A, AIRM 92B, AIRM 93A, and AIRM 93B. The evening program courses are offered in 9-week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3 |
| AIRM 71 | Aviation Maintenance Science | 6 |
| AIRM 72 | Aircraft Materials and Processes | 1.5 |
| AIRM 73 | Aircraft Welding | 1.5 |
| AIRM 90A | Airframe Maintenance Technology | 3 |
| AIRM 90B | Airframe Maintenance Technology: Structure and Design | 3 |
| AIRM 91A | Airframe Maintenance Technology | 3 |
| AIRM 91B | Airframe Maintenance Technology: Aluminum Repair | 3 |
| AIRM 92A | Airframe Maintenance Technology: Hydraulics & Pneu | 3 |
| AIRM 92B | Airframe Maintenance Systems 2 | 3 |
| AIRM 93A | Airframe Maintenance Technology: Systems | 3 |
| AIRM 93B | Airframe Maintenance Technology: Fire Suppression | 3 |
| AIRM 95A | Aircraft Powerplant Maintenance Technology | 3 |
| AIRM 95B | Aircraft Powerplant Maintenance Technology: Reciprocating Engines | 3 |
| AIRM 96A | Aircraft Powerplant Maintenance Technology: Turbine Engines | 3 |
| AIRM 96B | Aircraft Powerplant Maintenance Technology: Propellers | 3 |
| AIRM 97A | Aircraft Powerplant Maintenance Technology: Instrumentation | 3 |
| AIRM 97B | Aircraft Powerplant Maintenance Technology: Fuel Meter Systems | 3 |
| AIRM 98A | Aircraft Powerplant Maintenance Technology: Ignition Systems | 3 |
| AIRM 98B | Aircraft Powerplant Maintenance Technology: Lubricating Systems | 3 |
| Total Unita | | 60 |

Total Units

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AIRM 74 | Aircraft Maintenance Technology - Work Experience | 2 |
| AIRM 80 | Laboratory Studies in Aircraft Maintenance Technology | 0.5 |
| PHYS 1 | Physics | 4 |

Aircraft Maintenance Website (http://www.mtsac.edu/aircraftmaintenance)

The Airframe and Aircraft Powerplant Maintenance Technology program is accredited by the Federal Aviation Administration (FAA).

Contact:

Federal Aviation Administration (FAA) 800 Independence Avenue, SW Washington, DC 20591 1(800) 835-5322 www.faa.gov (http:// www.faa.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Connect learned theory with real-world problems and develop a logical solution to the problem.
- Locate, interpret and apply technical data from industry manuals and apply that technical data to a maintenance situation.
- Determine several possible solutions for dealing with a given situation and then decide which solution(s) are ethical and which are not.
- · Demonstrate proper use of aircraft repair equipment.
- Apply knowledge of aeronautics, aircraft maintenance, and aviation regulations.
- Inspect an aircraft/aircraft component and determine if the unit conforms to industry established standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Alcohol & Drug Counseling, AS

Technology and Health Division

Degree S2101

In this program the student integrates theory and practical experience in developing skills necessary to work with the alcohol and drug abuse population as well as families and employers of chemicallydependent persons. The curriculum is designed to meet the credentialing requirements of the California Association of Alcohol/Drug Educators. Students who complete this option qualify for employment in a variety of chemical-dependent settings.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AD 1 | Alcohol/Drug Dependency | 3 |
| AD 2 | Physiological Effects of Alcohol/Drugs | 3 |
| AD 3 | Chemical Dependency: Intervention, Treatment and Recovery | 3 |
| AD 4 | Issues in Domestic Violence | 3 |

| AD 5 | Chemical Dependency: Prevention and Education | 1.5 |
|-------------------|---|-----|
| AD 6 | Dual Diagnosis | 3 |
| Skill Courses | | |
| AD 8 | Group Process and Leadership | 3 |
| AD 9 | Family Counseling | 3 |
| AD 10 | Client Record and Documentation | 1.5 |
| AD 11 | Techniques of Intervention and Referral | 3 |
| Field Work Course | es | |
| AD 13 | Internship/Seminar | 4 |
| AD 14 | Advanced Internship/Seminar | 4 |
| Select two from t | he following: | 6 |
| CHLD 10 | Child Growth and Lifespan Development | |
| or CHLD 10 | Child Growth and Lifespan Development- Honors | |
| PSYC 1A | Introduction to Psychology | |
| or PSYC 1A | HIntroduction to Psychology - Honors | |
| PSYC 19 | Abnormal Psychology | |
| SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| SOC 14 | Marriage and the Family | |
| SOC 15 | Child Development | |
| Total Units | | 41 |

Alcohol and Drug Counseling Website (http://www.mtsac.edu/mentalhealth/alcohol-drug)

Eligibility Requirements

• File a College application and be accepted as a student at Mt. San Antonio College.

Selection Procedures

• All classes are open to all students who meet admission requirements and course prerequisites.

Special Instructions

- 1. Restricted Electives must be taken prior to enrollment in Field Experience
- 2. Restricted Electives can be taken in conjunction with core and skills courses
- 3. Refer to Schedule of Credit Classes for sequence of courses
- 4. For questions, call the division office at (909) 274-7500, ext.4750

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · May be exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- · Subject to many interruptions

- · Requires decisions/actions related to end of life issues
- · Exposed to products containing latex
- Exposed to highly charged emotional environment which can be stressful intense

English Language Skills

Although proficiency in English is not a criterion for admission, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

The Alcohol and Drug Counseling program is accredited by the California Association for Alcohol/Drug Educators.

Contact:

California Association for Alcohol/Drug Educators 5230 Clark Avenue, Suite 3 Lakewood, CA 90712 (707) 722-2331 www.caade.org (http:// www.caade.org)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be technically competent to safely practice as an entry-level alcohol & drug counselor.
- Demonstrate an understanding of ethical & legal requirements for alcohol & drug counselors.
- Demonstrate the ability to develop and achieve entry-level professional goals.
- Demonstrate the ability to develop and achieve entry-level professional goals.
- Demonstrate competency in basic counseling skills commensurate with an entry level practitioner in the addictions counseling field.
- Demonstrate the ability to assess, intervene, and refer clients with cooccurring mental health and substance abuse disorder to appropriate resources.
- Students completing the certificate/associates degree program will demonstrate the ability to prepare and develop professional treatment plans and other clinical documentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Animation, AS

Arts Division

Degree S1006

The Animation Program offers an integrated/interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and technology-based skills essential for today's careers in animation. The program offers both an A.S. degree and certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation or for transfer to an institution of higher learning. This Animation AS Degree provides expertise leading to employment opportunities as junior animators, character designers, storyboard artists, 3D modelers and game designers.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|--------------------------|--|-------|
| Core Courses | | |
| ANIM 100 | Digital Paint and Ink | 3 |
| ANIM 101A | Drawing - Gesture and Figure | 3 |
| ANIM 108 | Principles of Animation | 3 |
| ANIM 111A | Animal Drawing | 1.5 |
| ANIM 115 | Storyboarding | 3 |
| ANIM 116 | Character Development | 1.5 |
| ANIM 130 | Introduction to 3D Modeling | 3 |
| ANIM 131 | Introduction to Gaming | 3 |
| ANIM 148 | Demo Reel | 3 |
| Required Elective | es l | |
| Choose one from | the following: | 3 |
| ANIM 132 | Intermediate 3D Modeling | |
| ANIM 141 | 2D Game Level Design | |
| ANIM 172 | Motion Graphics, Compositing and Visual Effects | |
| ANIM 175 | Digital Animation | |
| ARTD 16 | Drawing: Perspective | |
| ARTD 17A | Drawing: Life | |
| ARTD 20 | Design: Two-Dimensional | |
| ARTS 22 | Design: Three-Dimensional | |
| Total Units | | 27 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | 3 |
| AHIS 4H | History of Western Art: Prehistoric Through Gothic - Honors | 3 |
| AHIS 5 | History of Western Art: Renaissance Through Modern | 3 |
| AHIS 5H | History of Western Art: Renaissance Through Modern - Honors | 3 |
| ANIM 104 | Drawing Fundamentals | 3 |
| ANIM 111B | Animal Drawing | 1.5 |
| ANIM 151 | Game Prototype Production | 3 |
| ARTD 15A | Drawing: Beginning | 3 |

Animation & Gaming Website (http://mtsac.edu/animation)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to plan, produce, collaborate on, and create 2D art and animation assets for use in games and animation productions.
- Be able to plan, produce, collaborate on, and create 3D models of objects and environments that can be used in games, and animation productions.
- Be able to plan, develop, and collaborate on storyboards for short animation and game productions.
- Be able to design, collaborate on, work with external developers and produce board games, and digital games.

• Create a portfolio demonstrating a clear understanding of selecting and organizing to present their art portfolio to animation and game studios.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Applied Laboratory Science Technology (ALST), AS

Natural Sciences Division

Degree S0307

This program provides theoretical and technical training to prepare students for employment as entry-level chemical technicians in fields such as chemical quality control, chemical process control, analytical chemistry, water quality, and research and development. The program includes a broad-based overview of workforce options and emphasizes development of analytical skills, instrument proficiency, critical thinking, and troubleshooting of experimental designs and outcomes.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|--|---|-------|
| BUSM 10 | Principles of Continuous Quality Improvement | 3 |
| CHEM 20 | Introductory Organic and Biochemistry | 5 |
| CHEM 50 | General Chemistry I | 5 |
| or CHEM 50H | General Chemistry I - Honors | |
| CHEM 51 | General Chemistry II | 5 |
| Choose six or sev | ven units from the following: | 6-7 |
| MICR 22 | Microbiology | |
| PHIL 12 | Introduction to Ethics | |
| or PHIL 12F | I Introduction to Ethics - Honors | |
| SPCH 26 | Interpersonal Communication | |
| or SPCH 26F Interpersonal Communication - Honors | | |
| Total Units | | 24-25 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · use critical thinking to analyze and solve problems.
- · troubleshoot experimental designs and outcomes.
- perform entry-level chemical technician duties such as chemical quality control, chemical process control, water quality and R&D.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Design Concentration, AS

Technology and Health Division Degree S0390

This program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment into the field or preparation for transfer to a professional school of architecture. The Design Concentration focuses upon studiobased design projects, drawing, and presentation skills. The student will develop a portfolio of work relevant to their concentration.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 102 | Design II - Architectural Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 122 | Architectural Presentations | 4 |
| ARCH 141 | Design Drawing and Communication | 4 |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 201 | Design III - Environmental Design | 4 |
| ARCH 202 | Design IV - Advanced Project | 4 |
| ARCH 221 | Architectural Illustration | 3 |
| ARCH 222 | Advanced Digital Design, Illustration and Animation | 3 |
| ARCH 250 | World Architecture I | 3 |
| ARCH 251 | World Architecture II | 3 |
| Total Units | | 44 |

ENGL 1C, MATH 150, and PHYS 2AG are typically required for transfer to a professional school of architecture. Verify all requirements with the transfer institution.

Architecture Website (http://www.mtsac.edu/architecture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Successfully transfer to a four year university in a related major.
- Be employed or seeking employment in the field or in a related area.
- Present and evaluate the pros and cons of particular architectural design alternative solution.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Architectural Technology Concentration, AS

Technology and Health Division

Degree S0392

This program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment into the field or preparation for transfer to a professional school of architecture. The Technology Concentration focuses upon building and construction technology, documentation, codes, and computer applications. Current technology and computer (CAD) skills are integrated into the program.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ARCH 101 | Design I - Elements of Design | 4 |
| ARCH 121 | CADD and Digital Design Media Level I | 4 |
| ARCH 141 | Design Drawing and Communication | 4 |
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 145 | Building and Zoning Codes | 3 |
| ARCH 146 | Architectural Drawings and Fabrications | 3 |
| ARCH 147 | Architectural CAD and BIM | 3 |
| ARCH 247 | Architectural CAD Working Drawings | 3 |
| ECT 26 | Civil Engineering Technology and CADD | 3 |
| ECT 70 | Elements of Construction Management | 3 |
| ECT 71 | Construction Estimating | 3 |
| Total Units | | 37 |

An advanced MATH course and PHYS 2AG typically are required for transfer to a professional school of architecture. Verify all requirements with the transfer institution.

Architecture Website (http://www.mtsac.edu/architecture)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be employed or actively seeking employment in the field or a related field.
- Create design development and working drawing sets reflecting refined job skills in architectural CAD.
- · Transfer to a 4 year university in a related major.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Aviation Science, AS

Technology and Health Division Degree S0910

This curriculum meets the requirements of the Federal Aviation Administration Air Traffic Collegiate Training Initiative (AT-CTI). Under an educational partnership agreement with the FAA, this CTI program prepares students for broad-based aviation careers. Students completing this CTI program may be recommended by the college for hiring by the FAA as air traffic controllers. There are no prerequisites or enrollment limitations.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| Core Courses | | |
| AERO 100 | Primary Pilot Ground School | 4 |
| AERO 102 | Aviation Weather | 3 |
| AERO 104 | Federal Aviation Regulations | 2 |
| AERO 152 | Air Transportation | 3 |
| AERO 200 | Aviation Safety and Human Factors | 3 |
| AERO 250 | Navigation | 3 |
| AERO 252 | Instrument Ground School | 3 |
| AIRT 151 | Aircraft Recognition and Performance | 3 |

| AIRT 201 | Terminal Air Traffic Control | 3 |
|-------------|---------------------------------|------|
| AIRT 203 | Enroute Air Traffic Control | 3 |
| AIRT 251 | Air Traffic Control Team Skills | 1.5 |
| Total Units | | 31.5 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| AERO 150 | Commercial Pilot Ground School | 3 |
| AERO 202 | Aircraft and Engines | 3 |
| BUSM 60 | Human Relations in Business | 3 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Be familiar with how the National Airspace System has evolved into today's complex airspace environment; understand current air traffic control separation standards and procedures for both terminal and en route operations; apply those separation standards, procedures, and techniques in a computer simulated environment while being aware of emerging air traffic control technologies and automation.
- Recognize, identify, and remember a wide variety of aircraft including the manufacturer, Federal Aviation Administration identification code, aircraft performance characteristics, and how those characteristics are applied to meet en route and terminal separation standards in a computer driven simulated environment.
- Understand the importance of teamwork among co-workers, the various stages of team development, coping and performing techniques and how to apply them in a scenario-based working environment; recognize a variety of personality types and team behaviors toward becoming a skilled team player as applied to today's intense air traffic control working environment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Building Automation, AS

Technology and Health Division

Degree S0308

This program is designed to prepare the student for a career in the fields of Building Automation, Energy Management, and Green Building Technologies. Students desiring a bachelor's degree (transfer program) should consult with an advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AIRC 20 | Refrigeration Fundamentals | 4 |
| AIRC 25 | Electrical Fundamentals for Air Conditioning and Refrigeration | 5 |
| AIRC 31 | Commercial Electrical for Air Conditioning and Refrigeration | 4 |
| AIRC 34 | Advanced Mechanical Refrigeration | 4 |
| AIRC 61 | Building Automation Fundamentals | 2.5 |
| AIRC 65 | Building Automation Networks and Programming | 3 |
| AIRC 67 | Energy Management | 4 |

| ELEC 11 | Technical Applications in Microcomputers | 3 |
|-------------|--|------|
| CISW 41 | XML Secure Programming | 3 |
| CNET 56 | Computer Networks | 4 |
| Total Units | | 36.5 |

Building Automation Website (http://www.mtsac.edu/ buildingautomation)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Identify the startup and operational sequence of a chiller plant.
- Understand the purpose and function of chiller plant economizers.
- · Demonstrate the use and application of controlled devices.
- · Develop programming strategies for a chiller plant.
- · Evaluate the energy usage of a multi-story commercial building.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Business: Management, AS

Business Division

Degree S0506

This program is intended to prepare students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSM 10 | Principles of Continuous Quality Improvement | 3 |
| BUSM 20 | Principles of Business | 3 |
| BUSM 51 | Principles of International Business | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 29.5 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-----------------------------|-------|
| BUSM 81 | Work Experience in Business | 1-4 |
| BUSM 85 | Special Issues in Business | 2 |
| BUSS 85 | Special Issues in Marketing | 2 |

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Identify how governments influence trade.

· Apply management concepts and functions.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Business: Retail Management, AS

Business Division

Degree S0509

This program exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management as well as the latest trends in this fast changing field. Completion of this program aids the student's search for an entry-level job in retail management.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| or BUSA 72 | Bookkeeping - Accounting | |
| BUSA 11 | Fundamentals of Accounting | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| BUSO 25 | Business Communications | 3 |
| BUSO 26 | Oral Communications for Business | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| FASH 62 | Retail Buying and Merchandising | 3 |
| or BUSS 50 | Retail Store Management and Merchandising | |
| Total Units | | 32.5 |

Business Management Website (http://www.mtsac.edu/management)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Define organizational culture, socialization and mentoring.
- Apply management concepts and functions.
- Explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Child Development, AS

Business Division

Degree S1315

This program provides a theoretical framework and practical experience developing skills necessary to work directly in preschool classrooms. Graduates can be employed at the teacher or master teacher level. The program develops students' skills and abilities in observation and assessing, planning and executing activities, and classroom management based on developmentally appropriate practices. Degree requirements exceed the identified eight (8) courses for transfer by requiring additional practical experience and curriculum courses. This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs ¹ | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| CHLD 64 | Health, Safety and Nutrition of Children | 3 |
| CHLD 66 | Early Childhood Development Observation and Assessment | 2 |
| CHLD 66L | Early Childhood Development Observation and Assessment Laboratory ¹ | 1 |
| CHLD 67 | Early Childhood Education Practicum | 2 |
| CHLD 67L | Early Childhood Education Practicum Laboratory ¹ | 1 |
| CHLD 68 | Children With Special Needs | 3 |
| CHLD 69 | Early Childhood Development Field Work Seminar | 2 |
| CHLD 84 | Guidance and Discipline in Child Development Settings | 1 |
| CHLD 91 | Early Childhood Development Field Work 1 | 1 |
| Total Units | | 28 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CHLD 50 | Teaching in a Diverse Society | 3 |
| CHLD 51 | Early Literacy in Child Development | 3 |
| CHLD 61 | Language Arts and Art Media for Young Children | 3 |
| CHLD 62 | Music and Motor Development for Young Children | 3 |
| CHLD 63 | Creative Sciencing and Math for Young Children | 3 |
| CHLD 71A | Administration of Child Development Programs | 3 |
| CHLD 71B | Management/Marketing/Personnel for ECD Programs | 3 |
| CHLD 72 | Teacher, Parent, and Child Relationships | 3 |
| CHLD 73 | Infant and Toddler Development ¹ | 3 |

Note: These courses are acceptable for the Child Development requirements leading to the Child Development Permit.

¹ - Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at Child Development Center (http://www.mtsac.edu/cdc/immunization).

Program Learning Outcomes

Upon successful completion of this program, a student will:

• Understand and use a wide array of developmentally appropriate approaches, instructional strategies, and tools to connect

with children and families and positively influence each child's development and learning.

- Be able to evaluate Early care and Education Program regulations, standards, policies according to Title 22 California.
- Be grounded in Child Development knowledge(theory) and use their understanding of young children and their needs to create environments that are healthy, respectful, supportive and challenging for each child.
- Understand that successful programs depend upon partnerships with children's families and communities. They use this understanding to create respectful, reciprocal relationships that support and empower families and to involve all families in their children's development and learning.
- Understand that child observation, documentation and other forms of assessment are central to the practices of all early childhood professionals. Students use systematic observations, documentation, and other effective assessment strategies to positively influence the development of every child.
- Understand the importance of developmental domains and academic content areas. Students use their knowledge and other resources to design, implement, and evaluate meaningful challenging curriculum.
- Be able to identify and conduct themselves as members of the early childhood profession. They know ethical guidelines and other professional standards related to early childhood practices. They know ethical guidelines and other professional standards related to early childhood education.
- Be able to apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Commercial Flight, AS

Technology and Health Division

Degree S0912

The Commercial Flight curriculum prepares students for careers as aircraft pilots as well as related ground occupations in aviation. Students have the opportunity for optional flight training with commensurate college credit. The pilot license is not required for graduation but it is desirable for career advancement.

This program prepares students for military and civilian aviation careers through transfer programs to bachelor's degree aviation curricula throughout the nation. With concurrent flight training, students may achieve the commercial pilot certificate and instrument rating simultaneously with the A.S. degree.

Aeronautics Website (http://www.mtsac.edu/aeronautics)

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| Core Courses | | |
| AERO 100 | Primary Pilot Ground School | 4 |
| AERO 102 | Aviation Weather | 3 |
| AERO 104 | Federal Aviation Regulations | 2 |
| AERO 150 | Commercial Pilot Ground School | 3 |

| AERO 152 | Air Transportation | 3 |
|-------------|-----------------------------------|----|
| AERO 200 | Aviation Safety and Human Factors | 3 |
| AERO 202 | Aircraft and Engines | 3 |
| AERO 250 | Navigation | 3 |
| AERO 252 | Instrument Ground School | 3 |
| Total Units | | 27 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| AIRT 151 | Aircraft Recognition and Performance | 3 |

Note: The Commercial Flight faculty recommend that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of commercial flight to help them determine which electives would best suit their career plans.

Aeronautics Website (http://www.mtsac.edu/aeronautics)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Recognize and comprehend terms and vocabulary associated with piloting and air traffic control; early federal legislation that was influential in shaping the aviation industry; the function of government in regulating the aviation industry; airline economics and demand; and career planning skills and resources.
- Recognize and comprehend physiology limitations humans experience in flight; comprehend the skills, techniques, and procedures of advanced crew resource management (ACRM), and applying ACRM principles in problem-solving scenarios; analyze aircraft accident case-studies and identify key factors leading to aircraft accidents.
- Identify and determine the characteristics of North American continental and worldwide weather systems; encode and decode hourly surface weather observations and pilot reports; encode and decode aviation weather forecasts and meteorological advisories; and summarize aviation weather conditions and forecasts using a variety of charts, observations, and forecasts with the goal of demonstrating good decision-making and problem-solving skills.
- Comprehend the skills, techniques, and procedures for safely operating aircraft in primary, instrument, and commercial flight operations. Students will be able to explain the principles of flight and aerodynamics as they relate to airplanes, helicopters, and other highperformance aircraft; analyze aircraft performance data necessary for takeoff and landing and evaluate problem-solving scenarios for "go" and "no-go" decisions; analyze and apply weight and balance principles in problem-solving scenarios.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer - Database Management Systems, AS

Business Division Degree S0706

The A.S. Degree in Database Management Systems is a two-year program designed to prepare students for careers in database management systems. The degree offers a balanced catalog of classes that prepares students to work with both small and enterprise-level computer

databases required by industry. Emphasis is placed on current techniques used in relational database management systems, including creating and maintaining table data, setting appropriate relationships between tables, querying needed information, creating additional objects needed for the dissemination of information from the database and setting properties to help ensure the security of data. In addition, VBA (Visual Basic for Applications) programming is covered. The enterprise level also concentrates in SQL development. In addition, the degree covers the theory of database design, including normalization and other current database topics. Students wishing a bachelor's degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses. Opportunities that are available after completion of this degree include, but are not limited to, database administrators, designers and developers, and database systems analysts.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| CISB 11 | Computer Information Systems | 3.5 |
| CISB 15 | Microcomputer Applications | 3.5 |
| CISD 40 | Database Design | 3 |
| CISM 11 | Systems Analysis and Design | 3.5 |
| Choose one from | the following: | 3-3.5 |
| CISN 21 | Windows Operating System | |
| CISN 31 & 31L | Linux Operating System and Linux Operating System Laboratory | |
| BUSM 20 | Principles of Business | 3-5 |
| or BUSA 7 | Principles of Accounting - Financial | |
| Choose two lectu | re-lab combinations from the following: | 7 |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISD 14 & 14L | VBA for Excel and Access and Visual Basic for Applications (VBA) Excel and Access Lab | |
| CISD 21 & 21L | Database Management - Microsoft SQL Server and Database Management - Microsoft SQL Server Laboratory | |
| CISD 31 & 31L | Database Management - Oracle and Database Management - Oracle Laboratory | |

Total Units

26.5-29

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

• Apply normalization rules to database design.

· Create a program using script and stored procedure.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer and Networking Technology, AS

Technology and Health Division Degree S0725

The Computer and Networking Technology program prepares students to become computer and networking service technicians. The program provides foundations in basic electricity and electronics, operating systems, computer service and troubleshooting, and customer relations, as well as more advanced training in networks, servers, and security. Students learn to install, configure, maintain, troubleshoot, and repair computers and networks. Students will become fully prepared to take the A+, Network+, Server+, and Security+ certification tests sponsored by CompTIA and offered at testing centers throughout the country. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields. Two certificate programs in Computer and Networking Technology are also available. Please see the "Certificates" section of the college catalog for descriptions and course requirements.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|---------|
| CNET 50 | PC Servicing | 4 |
| CNET 52 | PC Operating Systems | 4 |
| CNET 54 | PC Troubleshooting | 4 |
| CNET 56 | Computer Networks | 4 |
| CNET 58 | Server Systems | 4 |
| CNET 60 | A+ Certification Preparation | 2 |
| CNET 62 | Network+ Certification Preparation | 2 |
| CNET 64 | Server+ Certification Preparation | 2 |
| CNET 66 | Security+ Certification Preparation | 2 |
| ELEC 11 | Technical Applications in Microcomputers | 3-3.5 |
| or CISB 15 | Microcomputer Applications | |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 56 | Digital Electronics | 4 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 45-45.5 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|------------------------------------|-------|
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 74 | Microcontroller Systems | 4 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

• Apply knowledge of fundamental electronics principles, including voltage, current, and signal levels, to the analysis and troubleshooting of computers and data-communications networks.

- Apply knowledge of computers and their components to the development and implementation of interconnected systems of computers.
- Apply knowledge of computer technology, with an emphasis on hardware, to the development and deployment of complete computer networks.
- Demonstrate an understanding of the physical and logical characteristics needed to support and secure network and server environments.
- Function effectively as a member of a technical team including documenting work, writing clearly and appropriately in an Information Technology context, respecting user data, and considering the ethical consequences of decisions.
- Articulate knowledge of the CompTIA certification processes, including potential exam content, philosophy, and test taking and study strategies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer Network Administration and Security Management, AS

Business Division

Degree S0701

Computer Network Administration and Security Management is a two-year program leading to the Associate in Science (A.S.) degree. It prepares individuals for employment in the computer/information technology field in such areas as network administrator and security management administrator.

The curriculum is intended to help students develop skills to design, administer and manage the heterogeneous corporate network with security emphasis. The courses examine and illustrate network security with various industry-leading network operating systems. Individual courses will assist students in preparing for related industry certification exams.

The main objective of the degree is to prepare students for employment following graduation. Students wishing a bachelor's degree should meet with a counselor or advisor for choices to transfer to available CSU joint degree programs.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| Core Courses | | |
| CISN 11 | Telecommunications Networking | 3 |
| CISN 11L | Telecommunications/Networking Laboratory | 0.5 |
| CISN 24 | Window Server Network and Security Administration | 3 |
| CISN 24L | Window Server Network and Security Administration Laboratory | 0.5 |
| CISN 51 | Cisco CCNA Networking and Routing | 3 |
| CISN 51L | Cisco CCNA Networking and Routing Laboratory | 0.5 |

| CISS 21 | Network Vulnerabilities and Countermeasures | 3 |
|---------------------------------------|--|-------|
| CISS 21L | Network Vulnerabilities and Countermeasures Laboratory | 0.5 |
| CISS 23 | Network Analysis, Intrusion Detection/ Prevention Systems | 3 |
| CISS 23L | Network Analysis, Intrusion Detection/ Prevention Systems Laboratory | 0.5 |
| CISS 25 | Network Security and Firewalls | 3 |
| CISS 25L | Network Security and Firewalls Laboratory | 0.5 |
| CISS 29 | CNASM Service Learning | 1 |
| Required Elective | 25 | |
| Choose one lectu from the followin | ure or one combination lecture/lab course ıg: | 1-4 |
| CISB 11 | Computer Information Systems | |
| CISN 21 | Windows Operating System | |
| CISN 31 & 31L | Linux Operating System and Linux Operating System Laboratory | |
| CISN 34 & 34L | Linux Networking and Security and Linux Networking and Security Laboratory | |
| CISP 11 & 11L | Programming in Visual Basic and Programming in Visual Basic Laboratory | |
| CISP 21 & 21L | Programming in Java and Programming in Java Laboratory | |
| CISP 31 & 31L | Programming in C++ and Programming in C++ Laboratory | |
| CISP 41 & 41L | Programming in C# and Programming in C# Laboratory | |
| CISS 13 | Principles of Information Systems Security | |
| CISS 15 | Operating Systems Security | |
| CISS 27 | Cyber Defense | |
| Total Units | | 23-26 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Configure and install a firewall.
- · Implement a secured translation for service hosting through firewall.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Computer Programming, AS

Business Division Degree S7302

The A.S. Degree in Computer Programming is designed to prepare students for a career in computer programming. The degree offers a balanced set of classes that provides students with client, server and database programming skills required by the industry. Emphasis is placed on object-oriented programming applications, configuring servers, creating and navigating databases, and reusable software components. Students will demonstrate the ability to design and implement business environment applications that will contain the front end user interface and back end database. Student in this program select one of the following three programming language concentrations: C++, Visual Basic.NET or Java. Career opportunities available after the completion of this degree include programming for systems, mobile devices, device drivers and software engineering. Students wishing a bachelor's degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix Core Courses CISB 11 CISB 15 CISM 11 Choose one from CISN 21 | Windows Operating System | Units 3.5 3.5 3.5 3-3.5 |
|--|---|-------------------------------------|
| CISB 11 CISB 15 CISM 11 Choose one from | Microcomputer Applications Systems Analysis and Design the following: Windows Operating System | 3.5 3.5 |
| CISB 15 CISM 11 Choose one from | Microcomputer Applications Systems Analysis and Design the following: Windows Operating System | 3.5 3.5 |
| CISM 11 Choose one from | Systems Analysis and Design the following: Windows Operating System | 3.5 |
| Choose one from | the following: Windows Operating System | |
| | Windows Operating System | 3-3.5 |
| CIEN 21 | | |
| 613IN Z I | Linux Onerating System | |
| CISN 31 | Linux Operating System | |
| & 31L | and Linux Operating System Laboratory | |
| CISP 10 | Principles of Object-Oriented Design | 2.5 |
| BUSM 20 | Principles of Business | 3-5 |
| or BUSA 7 | Principles of Accounting - Financial | |
| Choose one from | the following combinations: | 3.5 |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | |
| CISD 21 & 21L | Database Management - Microsoft SQL Server | |
| | and Database Management - Microsoft SQL Server Laboratory | |
| CISD 31 & 31L | Database Management - Oracle and Database Management - Oracle Laboratory | |
| Required Elective | es | |
| Choose one of th | e following concentrations: | 7 |
| C++ | | |
| CISP 31 | Programming in C++ | |
| CISP 31L | Programming in C++ Laboratory | |
| CISP 34 | Advanced C++ Programming | |
| CISP 34L | Advanced C++ Programming Laboratory | |
| Visual Basic | | |
| CISP 11 | Programming in Visual Basic | |
| CISP 11L | Programming in Visual Basic Laboratory | |
| CISP 14 | Advanced Visual Basic .NET | |
| CISP 14L | Advanced Visual Basic.NET Laboratory | |
| Java | | |
| CISP 21 | Programming in Java | |
| CISP 21L | Programming in Java Laboratory | |
| CISP 24 | Advanced Java Programming | |
| CISP 24L | Advanced Java Laboratory | |
| Total Units | | 29.5-32 |

CIS Program Website (http://www.mtsac.edu/cis)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Display data from related database tables.
- · Update a SQL Server database.

Educational Paraprofessional (Instructional Assistant), AS

Business Division

Degree S0375

This degree program prepares paraprofessionals to work with children in a variety of ways that enhance learning. Graduates will be able to assist classroom teachers in working with K-12 students, including students with special needs. This associate degree certifies that paraprofessionals are "highly qualified" as specified by federal legislation.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-------------------------|--|-------|
| Core Courses | | |
| CHLD 1 | Child, Family, School and Community | 3 |
| Choose one from | m the following: | 3 |
| CHLD 10 | Child Growth and Lifespan Development | |
| CHLD 10H | Child Growth and Lifespan Development- Honors | |
| CHLD 11 | Child and Adolescent Development | |
| PSYC 14 | Developmental Psychology | |
| PSYC 15 | Introduction to Child Psychology | |
| CHLD 68 | Children With Special Needs | 3 |
| EDUC 10 | Introduction to Education | 3 |
| EDUC 16 | Aspects and Issues in Teaching | 3 |
| Required Electiv | ves | |
| Choose one cou | irse from the following: | 3 |
| CHLD 51 | Early Literacy in Child Development | |
| CHLD 64 | Health, Safety and Nutrition of Children | |
| ENGL 81 | Language Acquisition | |
| KIN 3 | First Aid and CPR | |
| LIT 40 | Children's Literature | |
| Total Units | | 18 |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

· Identify a variety of effective teaching strategies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Electronics and Computer Engineering Technology, AS

Technology and Health Division Degree S0906 The Electronics and Computer Engineering Technology (ECET) certificate program prepares individuals either for initial employment or for enhancement of existing skills in the electronics field, or for transfer into B.S. programs in Electronics Technology or Industrial Technology offered in the CSU system. Required courses for the certificate — many of which articulate directly to their equivalents at the CSUs are the same as for the ECET A.S. degree program except for the college General Education requirement. In addition to exposing students to core topics such as components and circuits, the program includes coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls. Nearly all laboratories have new, state-of-the-art equipment to provide students with quality, hands-on learning experiences.

Students completing the ECET certificate program possess ample skills to make them versatile employees. Typical technician-level job classifications include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician. All students completing the certificate program are automatically eligible to receive, without further examination, the 4th class technician license from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.).

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 11 | Technical Applications in Microcomputers | 3 |
| ELEC 12 | Computer Simulation and Troubleshooting | 2 |
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 50B | Electronic Circuits (AC) | 4 |
| ELEC 51 | Semiconductor Devices and Circuits | 4 |
| ELEC 53 | Communications Systems | 4 |
| ELEC 54A | Industrial Electronics | 4 |
| ELEC 54B | Industrial Electronic Systems | 3 |
| ELEC 55 | Microwave Communications | 4 |
| ELEC 56 | Digital Electronics | 4 |
| ELEC 61 | Electronic Assembly and Fabrication | 3 |
| ELEC 74 | Microcontroller Systems | 4 |
| TECH 60 | Customer Relations for the Technician | 2 |
| Total Units | | 45 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| CISP 11 | Programming in Visual Basic | 3 |
| ELEC 62 | Advanced Surface Mount Assembly and Rework | 2 |
| ELEC 76 | FCC General Radiotelephone Operator License Preparation | 2 |
| PHYS 2AG | General Physics | 4 |

Electronics and Computer Technology Website (http://www.mtsac.edu/ electronics)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Apply knowledge of electronic principles to the areas of communications, industrial electronics, and microcontrollers.
- Demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- Quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- Communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.
- In advanced courses, connect concepts learned in introductory courses to more general principles applicable in the employment context.

Emergency Medical Services, AS

Technology and Health Division Degree S1210

Students who complete the required courses listed below for the Paramedic Certificate and who also complete the graduation requirements of Mt. San Antonio College will be awarded the Associate in Science degree in Emergency Medical Services.

This Paramedic Program is accredited by the Committee on Accreditation of Allied Health Education Programs (CAAHEP) and approved by the Los Angeles County Emergency Medical Services Agency as meeting and exceeding the minimum standards as specified in Title 22 of the California Code of Regulations and the National Highway Traffic Safety Administration national standard curriculum. It is designed to train paramedics to work on ambulances and in the fire service.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| EMS 10 | Anatomy and Physiology for Paramedics | 3 |
| EMS 20 | Emergency Cardiac Care for Paramedics | 1.5 |
| EMS 30 | Pharmacology for Paramedics | 3 |
| EMS 40 | Cardiology for Paramedics | 3 |
| EMS 50 | Paramedic Skills Competency | 5 |
| EMS 60 | EMS Theory for Paramedics | 8.5 |
| EMS 70 | Paramedic Clinical Internship | 3 |
| EMS 80 | Paramedic Field Externship | 9 |
| Total Units | | 36 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| ANAT 10A | Introductory Human Anatomy | 4 |
| FIRE 1 | Fire Protection Organization | 3 |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| SOC 1 | Sociology | 3 |
| or SOC 1H | Sociology - Honors | |

The Emergency Medical Services faculty recommends that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Emergency Medical Services to help them determine which electives would best suit their career plans.

Special Information

To remain in the program, students must maintain a grade of "B" (80%) or better in all courses, per state regulations. Before starting clinical rotations, students must pass a criminal background check. Upon successful completion of the required courses, students are granted a certificate documenting completion of the Paramedic Program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Public Safety Programs Website (http://www.mtsac.edu/public-safety-programs)

Paramedic Program Readmission Policy

If the student fails any of the co-requisite courses, EMS 10 (http:// catalog.mtsac.edu/archive/2017-2018/search/?P=EMS%2010) - EMS 60 (http://catalog.mtsac.edu/archive/2017-2018/search/?P=EMS%2060), he/she will be dropped from the program. If the student wishes to repeat the program, a Success Plan and Contract will be developed with the faculty to increase the student's chances of success prior to re-entry. If the student withdraws or is dismissed from the program a second time, he/she will not be allowed to reenter the Paramedic Program at Mt. SAC.

Application Requirements

In addition to meeting Mt. San Antonio College academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. Be an EMT currently certified in California.
- 2. Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT (approximately 1,200 hours) within the last 2 years.
- 3. File a College application and be accepted as a student at Mt. San Antonio College.
- 4. Submit an application for the Paramedic Program to the Health Science Programs Office (909) 274-5051. All applications are dated upon receipt in the Health Science Programs Office. The Paramedic Program begins two (2) times per year.
- 5. Take the Assessment of Written English, Math Placement test, and Degrees of Reading Power tests. Placement examinations will be individually assessed to determine eligibility for the pre-courses. The placement tests are administered by the Assessment Center, located in the Student Services Center.
- Successful completion of EMS 1 (http://catalog.mtsac.edu/ archive/2017-2018/search/?P=EMS%201) Paramedic Fundamentals and Selection.
- 7. Forward two (2) official transcripts of all coursework completed (high school, EMT, Fire Science, and college work other than Mt. San Antonio College courses). One transcript must be sent to the Health Science Programs Office; the other to the Admissions and Records Office. For students who possess a college degree, the English placement examination is not required. However, it will be necessary for students to obtain two (2) official copies of the college transcript showing the degree issued. One official transcript must be sent to the Technology and Health Division Office; the other to the Admissions and Records Office. **Note:** If the course(s) were taken and/or the

degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

 A physical examination, proof of certain immunizations, a criminal background check, and drug test are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program.

All applicants are expected to meet the essential functions for success in the paramedic program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- · Emergency medical scene and patient management
- · Subject to many interruptions
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Requires decisions/actions related to end of life issues
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission into the EMT-P program, students are encouraged to be able to speak, write and read English to complete classes successfully and ensure safety for themselves and others.

The Emergency Medical Services program is accredited by the Committee on Accreditation of Allied Health Education Programs (CAAHEP).

Contact:

Committee on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street Clearwater, Florida 33756 (727)210-2350 www.caahep.org (http://www.caahep.org)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate competence in the following areas: patient assessment skills, scene management, knowledge of the laws governing Paramedic scope of practice, knowledge of the functions of cells, tissues, organs and organ systems as they relate to paramedic practices and patient care, the ability to utilize appropriate communications skills and demeanor with patients, family members, and field/hospital staff as well as display assertiveness in emergency situations as evidenced by proper assessment and selection of interventions.
- Demonstrate competence in the assessment and treatment of the following: Cardiovascular emergencies, Neurological emergencies, Respiratory emergencies, Abdominal emergencies, Diabetic emergencies, Endocrine/renal emergencies, Behavioral emergencies, Traumatic emergencies, Environmental emergencies, Obstetrical emergencies and Pediatric emergencies.
- Be employable/seeking employment in the field of paramedicine or a related field.
- · Have demonstrated skills competency to State & National standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Engineering and Construction Technology, AS

Technology and Health Division S0430

This degree is intended to prepare students for employment in the engineering and construction field. An understanding of building materials and architectural specifications in construction, building and zoning codes, permits, and architectural CAD and BIM will be developed. The development of these skills is critical for direct employment in the fields of construction, general or civil engineering technology, building inspection or construction management. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ARCH 142 | Architectural Materials and Specifications | 4 |
| ARCH 145 | Building and Zoning Codes | 3 |
| ECT 16 | CADD and Digital Design Media Level I | 4 |
| ECT 17 | Legal Aspects of Construction | 3 |
| ECT 26 | Civil Engineering Technology and CADD | 3 |
| ECT 67 | Reading Construction Drawings | 3 |
| ECT 70 | Elements of Construction Management | 3 |
| ECT 71 | Construction Estimating | 3 |
| ECT 87 | Fundamentals of Construction Inspection | 3 |
| Total Units | | 29 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Be technically competent.
- · Be employed or seeking employment in the field or a related field.

Equipment Technology, AS

Natural Sciences Division

Degree S0118

The courses in equipment technology are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences program. Our program is unique in that most courses provide hands-on experience and are designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

This program is intended to prepare students to become technicians for entry level positions or skills enhancement in the operation, service, maintenance and repair of industrial and agricultural power equipment.

Listed below are the courses needed to satisfy major requirements. It is recommended that students consult with the department chairperson, counselor or advisor to file an educational plan. For additional information, call the Agricultural Sciences Department, ext. 4540 or visit the Mt. SAC Web site at Agricultural Sciences. (http://www.mtsac.edu/ agriculture)

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-----------|
| AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | 3 |
| AGAG 59 | Work Experience in Agriculture | 1-4 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 52 | Hydraulics | 3 |
| AGOR 53 | Small Engine Repair I | 3 |
| AGOR 54 | Small Engine Repair II | 3 |
| AGOR 55 | Diesel Engine Repair | 3 |
| AGOR 56 | Engine Diagnostics | 3 |
| AGOR 57 | Power Train Repair | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| AGOR 72 | Landscape Hardscape Applications | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 34.5-37.5 |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to demonstrate fundamentals of operating tractors and equipment covered in class.
- · Demonstrate professional conduct in the industry.
- Be able to give a professional quality oral presentation.

• Be proficient in engine disassembly, evaluation of components, and reassembly of small air-cooled gasoline engine.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Fashion Design and Technologies, AS

Business Division Degree S1320

The Fashion Design and Technologies Degree consists of apparel design courses that prepare students for careers in apparel manufacturing, production, and technical design. This program emphasizes technology used in the apparel industry and technical design. Upon completion of the program, students will be proficient in technical drawing, computer patternmaking, and apparel related software. Students will gain handson experience in using industry related software and develop advanced technical design and production skills.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| FASH 8 | Introduction to Fashion | 3 |
| FASH 10 | Clothing Construction I | 3 |
| FASH 12 | Clothing Construction II | 3 |
| FASH 14 | Dress, Culture, and Identity | 3 |
| FASH 15 | Aesthetic Design in Fashion | 3 |
| FASH 17 | Textiles | 3 |
| FASH 21 | Patternmaking I | 3 |
| FASH 22 | Fashion Design By Draping | 3 |
| FASH 23 | Patternmaking II | 3 |
| FASH 24 | Fashion Patternmaking by Computer | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| Total Units | | 33 |

(http://www.mtsac.edu/instruction)

Student Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Create an apparel collection including textile designs and flats (technical drawings) pursuant to apparel industry standards.
- Demonstrate their understanding of the fashion industry trend research process.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fashion Merchandising, AS

Business Division Degree S1308

The A.S. Degree in Fashion Merchandising is designed to prepare students for entry-level careers in the apparel industry in Southern California. This A.S. program also offers students courses specializing in apparel retailing, advertising, textiles, and visual communications. The courses emphasize the business of fashion, wholesale merchandise planning, and apparel branding targeting specific markets. Upon completion of the program, students will be able to develop marketing strategies, create promotional campaigns, understand the buying process, and analyze retail businesses. Entry-level employment opportunities available after completion of this program may include retail sales, small store merchandising and showroom assisting.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| FASH 8 | Introduction to Fashion | 3 |
| FASH 10 | Clothing Construction I | 3 |
| FASH 15 | Aesthetic Design in Fashion | 3 |
| FASH 17 | Textiles | 3 |
| FASH 25 | Fashion Computer-Assisted Drawing | 3 |
| FASH 59 | Fashion Retailing | 3 |
| FASH 62 | Retail Buying and Merchandising | 3 |
| FASH 63 | Fashion Promotion | 3 |
| FASH 66 | Visual Merchandising Display | 3 |
| Total Units | | 27 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Analyze the marketing and promotional techniques of fashion and apparel companies.
- · Demonstrate their understanding of the fashion industry trend research process.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Fire Technology, AS

Technology and Health Division Degree S2105

The Fire Science major has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units | | |
|--|--|-------|--|--|
| Core Courses | | | | |
| FIRE 1 | Fire Protection Organization | 3 | | |
| FIRE 2 | Fire Prevention Technology | 3 | | |
| FIRE 3 | Fire Protection Equipment and Systems | 3 | | |
| FIRE 4 | Building Construction for Fire Protection | 3 | | |
| FIRE 5 | Fire Behavior and Combustion | 3 | | |
| FIRE 13 | Principles of Fire and Emergency Services Safety and Survival | 3 | | |
| Required Electives | | | | |
| Choose two courses from the following: | | | | |

| EMT 90 | Emergency Medical Technician | |
|-------------|---|-----------|
| FIRE 6 | Hazardous Materials/ICS | |
| FIRE 7 | Fire Fighting Tactics and Strategy | |
| FIRE 8 | Fire Company Organization and Management | |
| FIRE 9 | Fire Hydraulics | |
| FIRE 10 | Arson and Fire Investigation | |
| FIRE 11 | Fire Apparatus and Equipment | |
| FIRE 12 | Wildland Fire Control | |
| FIRE 86 | Basic Fire Academy | |
| KINF 53 | Physical Training for the Basic Fire Academy | |
| Total Units | | 23.5-40.5 |

The Fire Technology program is a Regionally Accredited Training Program (ARTP). The Office of the State Fire Marshall (OSFM) has a responsibility for accreditation of ARTP's throughout the State of California. An ARTP shall provide the following delivery components:

1. California Fire Service Training and Education System (CFSTES) 2. California Fire Service Training and Education Program (FSTEP) 3. Fire Incident Command Certification System (CICCS) 4. California Community College Chancellor's Office Standard Fire Technology Degree Core Program

Contact:

Office of the State Fire Marshall 1131 S. Street Sacramento, CA 95811 (916) 445-8200 www.osfm.fire.ca.gov (http://www.osfm.fire.ca.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Define fire department organization, culture, and methods of communication of entry level fire department personnel.
- Analyze and assess firefighter hazards, and demonstrate safe practices by using minimum standard safety procedures.
- · Demonstrate knowledge of fire preventions efforts and a resulting reduction of life and property loss.
- Demonstrate knowledge of strategy and tactics required for the proper selection and safe use of firefighting methods, techniques, tools and equipment.
- Identify fire chemistry and behavior for the purpose of predicting fire dynamics and flame spread characteristics.
- · Identify components of built-in and portable fire protections systems and alarm and notification devises.
- Demonstrate knowledge of the 5 basic types of construction. Identify the components and hazards related to each type.
- Demonstrate knowledge of Leadership and Management concepts as they relate to emergency and non-emergency situations.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

General Business, AS

Business Division

Degree S0501

This program is intended to prepare students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses

This degree requires the completion of General Education coursework plus the following:

Required Courses

| • | | |
|------------------|---|-------|
| Course Prefix | Course Name | Units |
| BUSA 7 | Principles of Accounting - Financial | 5 |
| or BUSA 72 | Bookkeeping - Accounting | |
| BUSL 18 | Business Law | 3 |
| or BUSL 18H | Business Law - Honors | |
| BUSM 10 | Principles of Continuous Quality Improvement | 3 |
| BUSM 20 | Principles of Business | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| BUSO 5 | Business English | 3 |
| BUSO 25 | Business Communications | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Choose six units | from the following: | 6 |
| BUSA | Business: Accounting | 1-5 |
| BUSC | Business: Economics | 3 |
| BUSL | Business: Law | 1-3 |
| BUSM | Business: Management | 1-4 |
| BUSS | Business: Sales, Merchandising and Marketing | 1-4 |
| CISB | Computer Information Systems Beginning | 2-4 |
| Total Units | | 41.5 |

Business Administration Website (http://www.mtsac.edu/ businessadministration)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Describe the basic accounting system and how it is used to serve business needs.
- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Apply management concepts and functions.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Histologic Technician Training, AS

Natural Sciences Division Degree S1211

This program provides on-campus and on-site technical training in the field of histotechnology, focusing on routine tissue sample preparation, special stains and techniques such as immunohistochemistry, and in situ hybridation. Training on campus will utilize samples routinely prepared in both clinical and research facilities. As part of their formal training, students of histotechnology will work through study guides provided by the American Society of Clinical Pathologists (ASCP) for its certification examination. Partnerships with local facilities will allow for work experience and internship sites, required for certification of histotechnology graduates, and will provide further training for those interested in research and/or careers in the private sector.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------------------------------|---|-------|
| Choose one course from the following: | | |
| ANAT 10B | Introductory Human Physiology | |
| ANAT 36 | Human Physiology | |
| MICR 26 | Introduction to Immunology | |
| ANAT 35 | Human Anatomy | 5 |
| Choose one course from the following: | | |
| CHEM 10 | Chemistry for Allied Health Majors | |
| CHEM 40 | Introduction to General Chemistry | |
| CHEM 50 | General Chemistry I | |
| CHEM 50H | General Chemistry I - Honors | |
| HT 1 | Introduction to Histotechnology | 1 |
| HT 2 | Scientific Basics for Histotechnicians | 3 |
| HT 10 | Histology | 3 |
| HT 12 | Beginning Histotechniques | 5 |
| HT 14 | Advanced Histotechniques | 5 |
| HT 16 | Histochemistry and Immunohistochemistry | 4 |
| HT 17 | Work Experience in Histotechnology | 4 |
| MICR 1 | Principles of Microbiology | 4-5 |
| or MICR 22 | Microbiology | |
| Total Units | | 42-45 |

The Histologic Technician Training program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Contact:

National Accrediting Agency for Clinical Laboratory Sciences 5600 N. River Rd., Suite 720 Rosemont, IL 60018-5119 (773) 714-8880 (773) 714-8886 (fax) info@naacls.org http://naacls.org/

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- successfully pass the Histotechnician American Society for Clinical Pathology Exam (ASCP)
- · be employed as histotechnicians
- · demonstrate superior technical skills

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Horse Ranch Management, AS

Natural Sciences Division Degree S0102

Horse Ranch Management offers students a look into the science, breeding, management and training of horses using a hands-on approach. It helps to prepare students for a variety of jobs in the horse industry and is molded around a core of horse science, agriculture, and general education courses. This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer) program should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|--------------------------|---|-------|
| AGAG 59 | Work Experience in Agriculture ¹ | 3 |
| AGAN 2 | Animal Nutrition | 3 |
| AGAN 94 | Animal Breeding | 3 |
| AGLI 16 | Horse Production and Management | 4 |
| AGLI 18 | Horse Ranch Management | 4 |
| AGLI 19 | Horse Hoof Care | 2 |
| AGLI 20 | Horse Behavior and Training | 2 |
| AGLI 96 | Animal Sanitation and Disease Control | 3 |
| AGLI 97 | Artificial Insemination of Livestock | 2 |
| Required Elective | es | |
| Choose six units | from the following: | 6 |
| AGOR 51 | Tractor and Landscape Equipment Operations | |
| AGOR 53 | Small Engine Repair I | |
| AGOR 71 | Construction Fundamentals | |
| BUSM 20 | Principles of Business | |
| BUSM 66 | Small Business Management | |
| WELD 40 | Introduction to Welding | |
| Total Units | | 32 |

Animal Sciences Website (http://www.mtsac.edu/animal) ¹ - Complete three units of AGAG 59.

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to design a comprehensive production/business plan for various horse-related activities.
- · Demonstrate professional conduct in the industry.
- · Be able to obtain an entry-level position in the horse industry.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Hospitality and Restaurant Management, AS

Business Division

Degree S1307

This Associate of Science in Hospitality and Restaurant Management prepares students for mid-level or Manager-In-Training positions in the hospitality industry. Students gain practical and management training in: food safety and sanitation, food production, dining room service management, supervision, cost control, financial accounting, lodging management, and hospitality law. Students who successfully complete the requirements for this degree will also earn the Food Protection Manager Certification from the National Restaurant Association upon passing the ServSafe Exam. This program is designed to articulate with the Collins College of Hospitality Management at Cal Poly Pomona as well as other universities. Students wishing to transfer should consult with Hospitality Management Coordinator to discuss transfer options.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|----------------|--|-------|
| HRM 51 | Introduction to Hospitality | 3 |
| HRM 52 | Food Safety and Sanitation | 1.5 |
| HRM 53 | Dining Room Service Management | 3 |
| HRM 54 | Basic Cooking Techniques | 3 |
| HRM 56 | Hospitality Supervision | 3 |
| HRM 57 | Hospitality Cost Control | 3 |
| HRM 64 | Hospitality Financial Accounting | 3 |
| HRM 66 | Hospitality Law | 3 |
| HRM 70 | Introduction to Lodging | 3 |
| Choose one cou | rse from the following: | 3 |
| HRM 61 | Menu Planning | |
| HRM 62 | Event Planning and Catering | |
| HRM 91 | Hospitality Work Experience ¹ | |
| Total Units | | 28.5 |

¹ - This is a variable unit course. Three units are required.

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Locate a current hospitality job, write a report on the prospective employer, write a cover letter and resume.
- Identify a recognized hospitality leader and accurately describing type of leadership style adopted by this leader and the characteristics that made them successful.
- · Determine the presence of foodborne-illness outbreak.
- Identify foodborne pathogen, their sources, and resulting illnesses, and symptoms.
- Differentiate between the various styles of service including: American (Pre-plated), English (Family), Russian (Platter), French (Gueridon).
- Identify food safety and sanitation practices within a food service establishment.
- Plan a food production schedule and assemble the tools, equipment, and ingredients required to produce a recipe in an organized and efficient manner.
- Recipe knowledge, accuracy and execution: Follow recipe procedures to produce food at the appropriate temperature, consistency, texture, flavor, and in a timely manner.
- Identify leadership styles and recognize successful motivational techniques.
- · Analyze the operational and cost control performance of a restaurant.
- Conduct break-even analysis on a food & beverage facility and conduct cost volume analysis to determine number of customers required to attain desired profits.
- · Calculate the recipe cost of an entire menu.
- · Analyze the popularity and profitability of a menu.
- Develop a business plan for a catering business and understand the enormity of planning for and opening a small business.

- Students will be able to meet with prospective clients and plan all elements of a special event.
- · Develop an Income Statement (P&L) for a hospitality operation.
- · Develop a Balance Sheet for a hospitality operation.
- · Identify and differentiate the four sources of law
- Analyze a hospitality civil case and determine the facts, elements of negligence, possible consequences and outcomes.
- Identify staffing needs for a hotel Front Desk based on occupancy, level of activity, and budget constraints.
- Establish room rates based on desired profits using the Hubbart formula.
- Develop measurable skill-based learning objectives, which they will attain at the end of their work experience period.
- Demonstrate proficiency of skills specified in the measurable objectives.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Human Resource Management, AS

Business Division

Degree S0530

The Human Resource Management degree is intended to prepare students to enter the business world in the dynamic environment of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resource management. Studies in human resource law, compensation systems, training, and development will provide the student a solid foundation from which to build a career in human resource management. Transfer students will gain a strong human resource management business elective base initiating further study in a variety of fields. Students active in the work arena will acquire new skills that are highly desirable in a fastpaced work force.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| ANTH 22 | General Cultural Anthropology | 3 |
| BUSA 70 | Payroll and Tax Accounting | 3 |
| BUSL 19 | Advanced Business Law | 3 |
| BUSM 20 | Principles of Business | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| BUSO 25 | Business Communications | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 27.5 |

Business Administration Website (http://www.mtsac.edu/ businessadministration)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Apply management concepts and functions
- Explain theory and practical application of Equal Employment Opportunity current employment laws
- Compose an appropriate, effective letter presenting good news, bad news, sales, or persuasive content

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Industrial Design Engineering, AS

Technology and Health Division

Degree S0331

This program is designed to prepare the student for a career in a wide range of industries including product and industrial design firms and fabrication and manufacturing companies. Students are introduced to product development from design through prototyping and fabrication for manufacturing.

Portfolio or prototype development is required on each of the semester levels. In the Level Three certificate and AS Degree course work, this will culminate in a final "senior project," which is a portfolio that includes two and three-dimensional design, documentation (accountability measures), presentation, and fabrication. This project will demonstrate the student's mastery of the concepts and methodologies learned during the program.

Students desiring a Bachelor's Degree should consult with a counselor or an educational advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| IDE 110 | Design Foundation-Visual Literacy | 3 |
| IDE 120 | Introduction to CAD | 3 |
| IDE 130 | Shop Processes | 3 |
| IDE 150 | Design Foundations | 3 |
| IDE 160 | Intermediate CAD | 3 |
| IDE 170 | Introduction to Prototyping | 3 |
| IDE 210 | Advanced Media | 3 |
| IDE 220 | Advanced CAD | 3 |
| IDE 230 | Introduction to Mechanical Principles | 3 |
| IDE 250 | Product Design and Viability | 6 |
| IDE 270 | Manufacturing Processes and Materials | 3 |
| Total Units | | 36 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ELEC 50A | Electronic Circuits - Direct Current (DC) | 4 |
| ELEC 81 | Laboratory Studies in Electronics Technology | 1-2 |
| MATH 51 | Elementary Algebra | 4 |
| PHYS 1 | Physics | 4 |
| WELD 30 | Metal Sculpture | 2 |
| WELD 40 | Introduction to Welding | 2 |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Integrated Pest Management, AS

Natural Sciences Division

Degree S0311

The Integrated Pest Management Program is part of the Agricultural Science Program and prepares students to design and implement comprehensive integrated pest management programs for private or public entities. It qualifies students to take the Pest Control Advisor (PCA) exam administered by the California Department of Pesticide Regulation. Pest Control Advisers provide written recommendations for the application of pesticides. Students learn how to design, install, and manage irrigation systems, set up and implement fertilizer and pest management programs, and properly identify and maintain trees, shrubs, and turf grasses. Students also learn personal management and budgeting skills. Most courses in the program provide hands-on experiences designed to give students a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to review lower-division requirements of the college or university they plan to attend.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|---|-------|
| AGOR 1 | Horticultural Science | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 39 | Turf Grass Production and Management | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |
| AGOR 91 | Work Experience in Horticulture | 3 |
| Choose at least s | ix units from the following: | 6 |
| BIOL 1 | General Biology | |
| BIOL 2 | Plant and Animal Biology | |
| BIOL 3 | Ecology and Field Biology | |
| BIOL 4 | Biology for Majors | |
| or BIOL 4H | Biology for Majors - Honors | |
| BIOL 6 | Humans and the Environment | |
| BIOL 6L | Humans and the Environment Laboratory | |
| BIOL 8 | Cell and Molecular Biology | |
| BIOL 20 | Marine Biology | |
| BIOL 21 | Marine Biology Laboratory | |
| BIOL 34 | Fundamentals of Genetics | |
| BIOL 50 | Biology Basic Skills | |
| BTNY 3 | Plant Structures, Functions, and Diversity | |
| CHEM 10 | Chemistry for Allied Health Majors | |
| CHEM 20 | Introductory Organic and Biochemistry | |
| CHEM 40 | Introduction to General Chemistry | |
| CHEM 50 | General Chemistry I | |
| or CHEM 50 | FGeneral Chemistry I - Honors | |

| CHEM 51 | General Chemistry II | |
|------------------|--|----|
| CHEM 80 | Organic Chemistry | |
| CHEM 81 | Organic Chemistry II | |
| Choose nine unit | s from the following: | 9 |
| AGOR 2 | Plant Propagation/Greenhouse Management | |
| AGOR 15 | Interior Landscaping | |
| AGOR 32 | Landscaping and Nursery Management | |
| AGOR 40 | Sports Turf Management | |
| AGOR 75 | Urban Arboriculture | |
| Total Units | | 42 |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · be technically proficient
- · demonstrate professional conduct in the industry
- · be able to give a professional quality oral presentation
- be able to formulate and implement a complete Integrated Pest Management program for a specific site

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Interior Design, AS

Business Division

Degree S1301

The Interior Design A.S. degree provides students with an excellent foundation for a successful career in interior design. Students will obtain the skill set necessary to obtain a variety of positions in the design field.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ID 10 | Introduction to Interior Design | 2 |
| ID 10L | Introduction to Interior Design Laboratory | 1 |
| ID 12 | Materials and Products for Interior Design | 3 |
| ID 14 | History of Furniture and Decorative Arts | 3 |
| ID 20 | Color and Design Theory I | 3 |
| ID 21 | Color and Design Theory II | 3 |
| ID 22 | Design Drawing for Interior Design | 3 |
| ID 23 | Computer Aided Drawing for Interior Design I | 3 |
| ID 25 | Space Planning for Interior Design I | 3 |
| ID 26 | Space Planning for Interior Design II | 3 |
| ID 27 | Rapid Visualization | 3 |
| ID 29 | Interior Design Studio I | 3 |
| ID 31 | Building Systems for Interior Design | 3 |
| ID 32 | Lighting Design and Theory for Interior Design | 3 |
| ID 34 | Computer Aided Drawing for Interior Design II | 3 |
| ID 36 | Portfolio Development for Interior Design | 3 |
| or ID 37 | Business Practices for Interior Design | |

| ID 38 | Internship in Interior Design | 2 |
|-------------|-------------------------------|----|
| ID 39 | Interior Design Studio II | 3 |
| Total Units | | 50 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| AGOR 13 | Landscape Design | 3 |
| AGOR 15 | Interior Landscaping | 3 |
| ARCH 122 | Architectural Presentations | 4 |
| ARTG 20 | Art, Artists and Society | 3 |
| BUSA 72 | Bookkeeping - Accounting | 5 |
| ID 50 | Interior Design Specialized Topics | 1 |
| ID 99 | Special Projects in Interior Design | 1-3 |

Interior Design Website (http://mtsac.edu/interiordesign)

The Interior Design program is accredited from the Interior Design -National Kitchen and Bath Association NKBA.

Contact:

Interior Design - National Kitchen and Bath Association NKBA 687 Willow Grove St Hackettstown, NJ 07847 1(800) 843-6522 www.nkba.org/ educator/college/accreditation.aspx (http://www.nkba.org/educator/ college/accreditation.aspx)

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

- · Successfully design a space based on a concept.
- · Successfully meet program requirements.
- Successfully demonstrate craftsmanship skills in the presentation of a space.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Interior Design - Kitchen and Bath, AS

Business Division

Degree S1302

The Interior Design: Kitchen and Bath Design A.S. degree provides students with specialized skills in the area of Kitchen and Bath Design and is accredited by the National Kitchen and Bath Association. Students will strengthen career perspectives and develop work to incorporate into a professional portfolio. This certificate may aid in the student's search for an intermediate position as an assistant to a kitchen and bath designer. Students completing this program and meeting the eligibility requirements will qualify to sit for the academic portion of the Certified Kitchen Designer (CKD) and Certified Bath Designer (CBD) upon graduation to earn the Associate Kitchen and Bath Designer (AKBD) designation.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ID 10 | Introduction to Interior Design | 2 |
| ID 10L | Introduction to Interior Design Laboratory | 1 |

| Total Units | | 59 |
|-------------|---|----|
| ID 48 | Internship in Kitchen and Bath | 3 |
| ID 41 | Kitchen and Bath Studio II | 3 |
| ID 40 | Kitchen and Bath Studio I | 3 |
| ID 39 | Interior Design Studio II | 3 |
| ID 38 | Internship in Interior Design | 2 |
| or ID 37 | Business Practices for Interior Design | |
| ID 36 | Portfolio Development for Interior Design | 3 |
| ID 34 | Computer Aided Drawing for Interior Design II | 3 |
| ID 32 | Lighting Design and Theory for Interior Design | 3 |
| ID 31 | Building Systems for Interior Design | 3 |
| ID 29 | Interior Design Studio I | 3 |
| ID 27 | Rapid Visualization | 3 |
| ID 26 | Space Planning for Interior Design II | 3 |
| ID 25 | Space Planning for Interior Design I | 3 |
| ID 23 | Computer Aided Drawing for Interior Design I | 3 |
| ID 22 | Design Drawing for Interior Design | 3 |
| ID 21 | Color and Design Theory II | 3 |
| ID 20 | Color and Design Theory I | 3 |
| ID 14 | History of Furniture and Decorative Arts | 3 |
| ID 12 | Materials and Products for Interior Design | 3 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ARCH 122 | Architectural Presentations | 4 |
| BUSA 72 | Bookkeeping - Accounting | 5 |
| BUSM 66 | Small Business Management | 3 |
| BUSS 50 | Retail Store Management and Merchandising | 3 |
| ID 50 | Interior Design Specialized Topics | 1 |
| ID 99 | Special Projects in Interior Design | 1-3 |

Interior Design Website (http://mtsac.edu/interiordesign)

The Interior Design - Kitchen and Bath program is accredited by the Interior Design - National Kitchen and Bath Association NKBA.

Contact:

Interior Design - National Kitchen and Bath Association NKBA 687 Willow Grove St Hackettstown, NJ 07847 1(800) 843-6522 www.nkba.org/ educator/college/accreditation.aspx (http://www.nkba.org/educator/ college/accreditation.aspx)

Program Learning Outcomes:

Upon successful completion of this program, a student will be able to:

· Successfully design a kitchen based on NKBA standards.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

International Business, AS

Business Division Degree S0507 This program is intended to prepare students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|---------------------------------------|-------|
| BUSL 20 | International Business Law | 3 |
| BUSM 20 | Principles of Business | 3 |
| BUSM 50 | World Culture: A Business Perspective | 3 |
| or ANTH 22 | General Cultural Anthropology | |
| BUSM 51 | Principles of International Business | 3 |
| BUSM 52 | Principles of Exporting and Importing | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 66 | Small Business Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| Choose one from | the following: | 4 |
| CHIN 1 | Elementary Chinese | |
| FRCH 1 | Elementary French | |
| GERM 1 | Elementary German | |
| ITAL 1 | Elementary Italian | |
| JAPN 1 | Elementary Japanese | |
| SPAN 1 | Elementary Spanish | |
| Total Units | | 28 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-----------------------------|-------|
| BUSM 81 | Work Experience in Business | 1-4 |
| BUSM 85 | Special Issues in Business | 2 |
| BUSS 85 | Special Issues in Marketing | 2 |

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Identify how governments influence trade.
- Explain how a small business can prepare to conduct export operations.
- · Describe business planning for small business.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Licensed Vocational Nurse to RN, AS

Technology and Health Division

Degree S1201

The Mt. San Antonio College Nursing Program, approved by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education, and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

The Licensed Vocational Nurse is provided career mobility in the Nursing Program. The Licensed Vocational Nurse may choose between earning an Associate in Science Degree in Nursing or completing the LVN 30-Unit Option track which leads to a certificate, not a degree.

This degree requires the completion of General Education coursework plus the following:

Prerequisite Courses

| Course Prefix | Course Name | Units |
|-------------------|--|-------|
| Human Anatomy | ; including a laboratory component. | 4 |
| Human Physiolo | gy, including a laboratory component. | 4 |
| Microbiology, inc | luding a laboratory component. | 4 |
| ENGL 1A | Freshman Composition ¹ | 4 |
| PSYC 1A | Introduction to Psychology ² | 3 |
| CHLD 10 | Child Growth and Lifespan Development 3 | 3 |
| or PSYC 14 | Developmental Psychology | |

¹ Minimum grade of C.

- ² PSYC 1A must be completed prior to entrance into NURS 5.
- ³ CHLD 10 or PSYC 14 must be completed prior to entrance into NURS 6.

Non-course Requirements

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for MATH 71 (Preferably MATH 71 or a college level math course completed).
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a current, active California Licensed Vocational Nurse license.
- 6. A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes.
- 7. Current Healthcare Provider CPR certification.
- 8. Criminal background check and drug screening must be completed prior to any patient contact.
- 9. Nursing 70: Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70: Role Transition Due to the clinical component of NURS 70, applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background Check, and drug testing prior to the start of class).

| Course Prefix Required Nursing | Course Name J Courses | Units |
|-----------------------------------|--------------------------|-------|
| NURS 4 | Maternity Nursing | 3 |
| NURS 5 | Psychiatric Nursing | 3 |

| NURS 6 | Pediatric Nursing | 3 |
|------------------------|---|-------|
| NURS 7 | Medical-Surgical Nursing: Nutrition/ Elimination/ Surgical Asepsis | 7 |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5 |
| NURS 9 | Leadership in Nursing | 1 |
| NURS 10 | Medical-Surgical Nursing: Integration/ Regulation | 4 |
| NURS 11 | Preceptorship in Nursing | 2 |
| Requirements for | r the Major | |
| Select one of the | following sequences: | 8-10 |
| ANAT 35 & ANAT 36 | Human Anatomy and Human Physiology | |
| ANAT 10A & ANAT 10B | Introductory Human Anatomy and Introductory Human Physiology | |
| MICR 1 | Principles of Microbiology | 4-5 |
| or MICR 22 | Microbiology | |
| ENGL 1A | Freshman Composition | 4 |
| or ENGL 1AH | Freshman Composition - Honors | |
| CHLD 10 | Child Growth and Lifespan Development | 3 |
| or CHLD 10H | Child Growth and Lifespan Development- Honors | |
| or PSYC 14 | Developmental Psychology | |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| SPCH 1A | Public Speaking | 4 |
| or SPCH 1AH | Public Speaking - Honors | |
| or SPCH 2 | Fundamentals of Communication | |
| or SPCH 8 | Professional and Organizational Speaking | |
| or SPCH 8H | Professional and Organizational Speaking - Hono | rs |
| Total Units | | 54-57 |
| | | |

Nursing Website (http://www.mtsac.edu/nursing)

Selection Process

Students applying for admission to the Nursing Program are required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established and the Admission Assessment Test has been passed, students will enter on a first come first served basis.

The Eligibility Appointment

- 1. Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
- 2. Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges.
 - b. If the prerequisite courses were completed atanother college, a course description and a copy of the course syllabus.
 - c. Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be

able to obtain a list of agencies from the Admissions & Records Office).

- d. Due to specific college deadlines for International Student application, please inform the Counseling/Educational Advisor that this applies to you.
- e. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

All applicants are required to meet the essential functions for success in the nursing program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

(May be corrected with adaptive devices)

- · Color vision: ability to distinguish and identify colors
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- · Subject to many interruptions
- · Requires judgment/action which could result in death of a patient
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

REGARDING LICENSURE

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offender crimes, acts involving narcotics, dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure, should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at www.rn.ca.gov (http://www.rn.ca.gov).

Contact:

California Board of Registered Nursing 1747 North Market Boulevard, Suite 150 Sacramento, CA 95834 (916) 322-3350 www.rn.ca.gov (http:// www.rn.ca.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

• Successfully complete the Role Transition course to be accepted into the Nursing Program in the second semester.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Livestock Management, AS

Natural Sciences Division

Degree S0103

This program is designed to give students basic skills in livestock management for employment opportunities on farms, ranches, and agriculture sales and services.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|--------------------------|---|-------|
| AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | 3 |
| AGAG 59 | Work Experience in Agriculture ¹ | 1-4 |
| AGAN 1 | Animal Science | 3 |
| AGAN 2 | Animal Nutrition | 3 |
| AGAN 94 | Animal Breeding | 3 |
| AGLI 14 | Swine Production | 3 |
| AGLI 17 | Sheep Production | 3 |
| AGLI 30 | Beef Production | 3 |
| AGLI 34 | Livestock Judging and Selection | 2 |
| AGLI 96 | Animal Sanitation and Disease Control | 3 |
| AGLI 97 | Artificial Insemination of Livestock | 2 |
| Required Elective | es | |
| Agricultural Mecl | hanics/Production | |
| Choose three uni | ts from the following: | 3 |
| AGOR 53 | Small Engine Repair I | |
| AGOR 51 | Tractor and Landscape Equipment Operations | |
| WELD 40 | Introduction to Welding | |
| AGLI 16 | Horse Production and Management | |
| Business Manag | ement | |

| Choose three units from the following: | | 3 |
|--|---------------------------|-------|
| BUSM 20 | Principles of Business | |
| BUSM 66 | Small Business Management | |
| BUSS 35 | Professional Selling | |
| BUSS 36 | Principles of Marketing | |
| Recommended E | Electives | |
| AGAG 91 | Agricultural Calculations | |
| Total Units | | 35-38 |

Animal Sciences Website (http://www.mtsac.edu/animal) ¹ - Complete one to four units of AGAG 59.

Program Learning Outcomes

Upon successful completion of this program, a student:

- Will be able to design a comprehensive production/business plan for various livestock species
- · Can successfully transfer to the CSU and UC system.
- Will address animals welfare requirements when designing and implementing a livestock management system.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Manufacturing Technology, AS

Technology and Health Division

Degree S0918

The Associate in Science degree in Manufacturing Technology is designed to prepare students for entrance into the manufacturing field in one of the machining occupations such as manual and computer numerical control (CNC) machinists, machinery technicians, or machinist apprentices, computer aided design (CAD) operators, draftsmen, or design engineers, and computer aided manufacturing (CAM) machine programmers. This program provides students with a broad foundation in common manufacturing processes such as injection molding, vacuum forming, sheet metal, casting processes, and laser cutting.

Graduates may enter the manufacturing field in areas dealing with production, research and development, tool and die construction, mold making, or computerized manufacturing. Laboratory practice utilizes industrial types of equipment and precision measuring instruments to provide training in the various machining occupations. This degree covers setup and tooling procedures and part certification upon completion of the metal removing process. It includes instruction on industry-based CAD and CAM methodologies and all types of lathes, mills, grinders, and specialized equipment such as CNC. Supplementary instruction is also provided in mechanical literacy, bench work, layout, inspection process, blueprint reading, metal composition, heat treatment, assembly procedures, jig and fixture design, and construction.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| MFG 110 | Introduction to CAD | 4 |
| MFG 120 | CAD for Manufacturing | 4 |
| MFG 130 | Manufacturing Processes and Materials | 3 |
| MFG 140 | Shop Practices | 3 |

| MFG 150 | Manual Machining I | 3 |
|-----------------|--|----|
| MFG 155 | Manual Machining II | 2 |
| MFG 160 | Introduction to Mechanical Principles | 3 |
| MFG 210 | Advanced CAD | 3 |
| MFG 220 | Computer Aided Manufacturing II | 3 |
| MFG 250 | Introduction to CNC Programming | 3 |
| MFG 260 | Intermediate CNC | 3 |
| Three (3) units | of Work Experience | 3 |
| EDT 89 | Engineering Design Technology Work Experience | |
| Total Units | | 37 |

Manufacturing Website (http://www.mtsac.edu/manufacturing)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be technically competent.
- · Be employed or seeking employment in their area or a related area.
- Demonstrate ability to create a CAD model, 2D print or fabricate a part from a 2D print using manual or CNC methods.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Marketing Management, AS

Business Division

Degree S0510

This program is intended to prepare students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| or BUSA 72 | Bookkeeping - Accounting | |
| BUSM 20 | Principles of Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSO 25 | Business Communications | 3 |
| BUSS 35 | Professional Selling | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| BUSS 85 | Special Issues in Marketing | 2 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Choose one from | the following: | 3 |
| BUSC 1A | Principles of Economics - Macroeconomics | |
| or BUSC 1A | Principles of Economics - Macroeconomics - He | onors |
| BUSC 1B | Principles of Economics - Microeconomics | |
| or BUSC 1B | HPrinciples of Economics - Microeconomics - Ho | nors |
| BUSC 17 | Applied Business Statistics | |
| BUSM 60 | Human Relations in Business | |

| BUSO 5 | Business English | |
|-------------|------------------|------|
| Total Units | | 28.5 |

Total Units

Business Administration Website (http://www.mtsac.edu/ businessadministration)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Develop a working knowledge of marketing terminology.
- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- · List the characteristics of a successful salesperson.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Mental Health Technology -Psychiatric Technician, AS

Technology and Health Division

Degree S1208

Completion of coursework leads to an Associate in Science degree. The Psychiatric Technology Program will prepare students to take the California State Licensure Examination for Psychiatric Technicians.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| MENT 40 | Introduction to Interviewing and Counseling | 3 |
| MENT 56 | Medical-Surgical Nursing for Psychiatric Technicians | 9 |
| MENT 56L | Medical-Surgical Clinical Experience | 4 |
| MENT 58D | Advanced Medical-Surgical Nursing and Pharmacology for PT | 4 |
| MENT 58L | Advanced Medical-Surgical Nursing for Psychiatric Technicians Clinical | 1.5 |
| MENT 70 | Introduction to Psychiatric Technology | 1.5 |
| MENT 70L | Introduction to Psychiatric Technology Clinical Technicians | 2 |
| MENT 72 | Nursing Care of the Developmentally Disabled Person | 7 |
| MENT 72L | Nursing Care of the Developmentally Disabled Person - Clinical | 5.5 |
| MENT 73L | Psychiatric Nursing for Psychiatric Technicians Clinical | 5.5 |
| MENT 73T | Psychiatric Nursing for Psychiatric Technicians | 6 |
| MENT 82 | Work Experience in Mental Health Technology | 2 |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| Total Units | | 54 |

Special Information

Additional general education courses needed for completion of the Degree requirements are listed in the Mt. San Antonio College Catalog, but are not required to qualify the student for the California State Board Examination.

To remain in the program, students must maintain a "C" or better grade in all courses.

The student will qualify to take the California State Board Examination upon completion of all the above courses, except MENT 82.

Mental Health Department Website (http://www.mtsac.edu/mentalhealth)

Special Information

Additional general education courses needed for completion of the Associate in Science degree requirements are listed in the Mt. San Antonio College Catalog, but are not required to qualify the student for the California State Board Examination.

To remain in the program, students must maintain a "C" or better grade in all courses.

The student will qualify to take the California State Board Examination upon completion of all the above courses, except MENT 82.

Entrance Requirements

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. Be a high school graduate or equivalent. (All students who have taken coursework outside of the United States must have their transcript evaluated. Foreign transcripts will not be accepted without the evaluation.)
- 2. Be 18 years of age.
- 3. File a college application and be accepted as a student at Mt. San Antonio College.
- 4. Submit an electronic application (preferred) for the Mental Health/ Psychiatric Technician Program to techandhealth@mtsac.edu or a paper application to the Health Careers Resource Center (HCRC) (909) 274-4788. All applications are dated upon receipt in the Health Careers Resource Center. A program begins each winter and summer intersession with mandatory orientations each fall and spring. Orientations are unique to each cohort, so if a student does not begin classes the intersession following the orientation, then a new orientation must be attended before starting. Students that do not attend the mandatory orientation will not be eligible to start the following intersession even if an orientation had previously been attended.
- 5. Eligibility for ENGL 1A is currently required to take PSYC 1A, which is a co-requisite for courses within the program. If you have already taken PSYC 1A at Mt. SAC, or an equivalent course at another institution within the past five years this may be waived. If PSYC 1A (or equivalent course) was taken at another institution, send an official transcript from the institution where it was taken to Admissions and Records Office at Mt. SAC. An additional set of transcripts (may be unofficial) must be delivered to the Health Careers Resource Center. If there is no previously-approved course deemed as equivalent by the Psychology Department at Mt. SAC, the student will be required to request a variance for the course from the Psychology Department at Mt. SAC.

Testing is administered by the Assessment Center, located in the Student Service Center. Arrangements should be made with them to schedule a date and time to take the English Placement Test, if required. The Assessment Center is open Monday through Friday. You may contact them a (909) 594-5611, Ext. 4265.

- 6. For students who possess a college degree, the English Placement Test may not be required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One transcript must be sent to the Health Careers Resource Center and the other to the Admission and Records Office.
- 7. Forward two official transcripts of all coursework complete (high school, nursing school, and other than Mt. San Antonio College courses.) One transcript must be sent to the Health Careers Resource Center and the other to the Admissions and Records Office. NOTE: Concerning Entrance Requirements 'e', 'f', and 'g", if the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. The Health Careers Resource Center processes applications for multiple programs, therefore indicate in the mailing address the program for which your transcript is being sent.

EXAMPLE:

Mt. San Antonio College Health Careers Resource Center Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399

- 8. A physical examination showing proof of specific immunizations (including seasonal influenza as appropriate), and consent/disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have tuberculosis. These requirements are in accordance with the healthcare agency policy that insure that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation or GED is required. Malpractice insurance may also be required.
- 9. Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician. Certain facilities require Live Scanning (both Department of Justice (DOJ) and Federal Bureau of Investigation (FBI)). Live Scans are unique to each facility. Multiple Live Scans will be required throughout the program. Clinical facilities have the right to exclude students from attending clinical at their site based on Live Scan results. The program cannot guarantee that an alternate clinical site will be available for the student to meet clinical hour obligations.
- 10. All students may be required to pass an additional background check prior to entering the clinical education phase.

Selection Procedure

The College will make every effort to notify the applicant of acceptance by mail no less than one month prior to the beginning of the program. All applicants are required to meet the Essential Functions for Success in the Mental Health Technology - Psychiatric Technician Program (listed below).

Essential Functions for Success in the Mental Health Technology-Psychiatric Technician Program:

Physical Demands:

• Perform prolonged, extensive, or considerable standing, walking, lifting positioning, pushing, and/or transferring patients

- Possess the ability to perform fine motor movements with hands and fingers
- · Possess the ability to lift and carry at least 125 pounds
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less

Hearing: able to recognize a full range of tones

Working Environment

- · May be exposed to infectious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids, and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle potentially dangerous emergency or crisis situations or patients
- Subject to many interruptions
- · Requires decisions and actions related to end of life issues
- · Exposed to products containing latex
- Requires judgment and/or action which could affect the life or death of a patient.

English Language Skills:

Although proficiency in English is not a criterion for admission into the Mental Health Technology - Psychiatric Technician Program, students must be able to speak, write, and read English to ensure patient safety and to complete classes successfully.

The Mental Health Technology - Psychiatric Technician program is accredited by the Board of Vocational Nursing and Psychiatric Technicians.

Contact:

Board of Vocational Nursing and Psychiatric Technicians, Suite 205 2535 Capital Oaks Drive Sacramento, CA 95833 (916) 263-7800 bvnpt@dca.ca.gov

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate the ability to provide client care, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate nursing skills, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to successfully intervene at all levels of client escalation/de-escalation, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.

- Demonstrate the ability to support client efforts to achieve and maintain optimal mental health, within scope of practice, to successfully practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to safely administer medications, with scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to participate in all areas of treatment plan development, within scope of practice, to safely practice as an entry-level licensed psychiatric technician.
- Demonstrate the ability to develop and achieve entry-level professional goals.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Nursing, AS

Technology and Health Division

Degree S1203

The Mt. San Antonio College Nursing Program, approved by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education, and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

Enrollment in the Mt San Antonio Registered Nursing Program – Generic Option – is open to persons regardless of sex, age, marital status, disability, ethnic group, religion or national origin. Applications are accepted twice a year for the Fall and Spring semesters via on-line application process.

ADN General Education Requirements

All courses below must be completed with a grade of "C" or better. Due to the intensity of the program, students are highly encouraged to complete general education prior to admission into the program.

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| PSYC14 | Developmental Psychology ¹ | 3 |
| or CHLD 10 | Child Growth and Lifespan Development | |
| or CHLD 10H | Child Growth and Lifespan Development- Honors | |
| PSYC 1A | Introduction to Psychology ² | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| SPCH 1A | Public Speaking | 4 |
| or SPCH 1AH | Public Speaking - Honors | |
| or SPCH 2 | Fundamentals of Communication | |
| or SPCH 8 | Professional and Organizational Speaking | |
| or SPCH 8H | Professional and Organizational Speaking - Honor | ſS |

¹ - Must be completed before NURS 6.

² - Must be completed before NURS 5.

Additional General Education Required for the Associate Degree

(These requirements are waived for students who have a Bachelor's degree or higher from a regionally accredited institution in the United States.)

| Course Prefix | Course Name | Units |
|---------------------|---|-------|
| History or Politica | al Science ¹ | 3 |
| Select one Histor | y or Political Science course ¹ | 3 |
| Arts | | |
| Select one course | e from the Arts area ¹ | 3 |
| Humanities | | |
| Select one course | e from the Humanities area ¹ | 3 |
| Physical Well-Bei | ing Requirement | |
| | e of the physical education activity courses g prefixes: DNCE, KINA, KINF, KINI, KINL, | .5-1 |
| Intermediate Alge | ebra | |
| MATH 71 | Intermediate Algebra | 5 |
| or MATH 71X | Practical Intermediate Algebra | |
| or MATH 71B | Intermediate Algebra - Second Half | |
| Reading Compete | ency | |
| Complete the req | uirement. ¹ | |

¹ - See Mt. SAC Catalog for applicable courses.

Requirements for Nursing

| Course | Title | Units |
|------------|---|-------|
| Semester 1 | | |
| NURS 1A | The Nursing Process I | 5 |
| NURS 1B | The Nursing Process II | 5 |
| NURS 2 | Pharmacology | 2 |
| | Units | 12 |
| Semester 2 | | |
| NURS 3 | Medical-Surgical Nursing: Locomotion/ Sensory/Integ/Oncology/Immu | 3.5 |
| NURS 4 | Maternity Nursing | 3 |
| NURS 6 | Pediatric Nursing | 3 |
| | Units | 9.5 |
| Semester 3 | | |
| NURS 7 | Medical-Surgical Nursing: Nutrition/ Elimination/ Surgical Asepsis | 7 |
| NURS 5 | Psychiatric Nursing | 3 |
| | Units | 10 |
| Semester 4 | | |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5 |
| NURS 9 | Leadership in Nursing | 1 |
| NURS 10 | Medical-Surgical Nursing: Integration/ Regulation | 4 |
| NURS 11 | Preceptorship in Nursing | 2 |
| | Units | 12 |
| | Total Units | 43.5 |

Requests for Equivalency

Request for equivalency for core sciences: courses must meet or exceed the 4.0 unit minimum with a laboratory component, as required by the California Community College Chancellor's office. If you are uncertain whether a course taken inside or outside the California Community College system is equivalent to the Mt. SAC course, please contact the Nursing Educational Advisor Kathleen Clarke (kclarke@mtsac.edu).

Foreign Course Work

Course work completed in another country may be accepted to satisfy requirements for graduation. Foreign transcripts must be evaluated by a recognized foreign evaluation service. If you are selected as a candidate for the Nursing Program, please submit an official, sealed copy of the foreign evaluation during your counseling appointment.

High School Education or Equivalent

Applicants must provide proof of graduation from:

- 1. An accredited high school in the United States by transcripts or diploma or;
- 2. Documentation of a passing score on the General Education Development (GED) exam or;
- Associate degree, or Baccalaureate degree from an accredited institution of higher education in the United States or;
- 4. Official evaluation of international diploma/degree

Other Program Requirements

- 1. Meet the minimum physical and mental qualifications to perform essential nursing functions (see Essential Functions).
- 2. Criminal background check and drug screening must be completed prior to any patient contact.
- 3. A physical examination, including specific immunization is required of all candidates prior to the beginning of nursing classes.
- 4. Current Health Care Provider CPR certification

Requirements for the Associate Degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the AS degree. Contact the Counseling Department at (909) 274-4380 to schedule an appointment.

Requirements for Nursing

| Course Prefix | Course Name | Units |
|-------------------------|---|-------|
| Required Nursing | g Courses | |
| NURS 1A | The Nursing Process I | 5 |
| NURS 1B | The Nursing Process II | 5 |
| NURS 2 | Pharmacology | 2 |
| NURS 3 | Medical-Surgical Nursing: Locomotion/ Sensory/Integ/Oncology/Immu | 3.5 |
| NURS 4 | Maternity Nursing | 3 |
| NURS 5 | Psychiatric Nursing | 3 |
| NURS 6 | Pediatric Nursing | 3 |
| NURS 7 | Medical-Surgical Nursing: Nutrition/ Elimination/ Surgical Asepsis | 7 |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5 |
| NURS 9 | Leadership in Nursing | 1 |

| NURS 10 | Medical-Surgical Nursing: Integration/ Regulation | 4 |
|--------------------------------------|---|--------|
| NURS 11 | Preceptorship in Nursing | 2 |
| Required Prerequ | iisite Courses for the Major | |
| Select one of the | following sequences: | 8-10 |
| ANAT 35 & ANAT 36 | Human Anatomy and Human Physiology | |
| ANAT 10B & ANAT 10A | Introductory Human Physiology and Introductory Human Anatomy | |
| MICR 1 or MICR 22 | Principles of Microbiology Microbiology | 4-5 |
| ENGL 1A or ENGL 1AH | Freshman Composition Freshman Composition - Honors | 4 |
| Other General Ed | ucation Requirements | |
| CHLD 10 or CHLD 10H or PSYC 14 | Child Growth and Lifespan Development ¹ Child Growth and Lifespan Development- Honors Developmental Psychology | 3 |
| PSYC 1A or PSYC 1AH | Introduction to Psychology ² Introduction to Psychology - Honors | 3 |
| SPCH 1A | Public Speaking | 4 |
| or SPCH 1AH | Public Speaking - Honors | |
| or SPCH 2 | Fundamentals of Communication | |
| or SPCH 8 | Professional and Organizational Speaking | |
| or SPCH 8H | Professional and Organizational Speaking - Hono | rs |
| Total Units | 69.5 | 5-72.5 |
| | | |

¹ - CHLD 10 or PSYC 14 must be completed prior to entrance into NURS 6

² - PSYC 1A must be completed prior to entrance into

NOTE: Applicants planning to continue their education and enter a baccalaureate program in Nursing will need to meet with a counselor or educational adviser to discuss transferability of courses.

Nursing Website (http://www.mtsac.edu/nursing)

Prerequisite Courses

| Course Prefix | Course Name | Units |
|-------------------|---------------------------------------|-------|
| Human Anatomy | , including a laboratory component. | 4 |
| Human Physiolo | gy, including a laboratory component. | 4 |
| Microbiology, inc | luding a laboratory component. | 4 |
| ENGL 1A | Freshman Composition ¹ | 4 |

¹ Minimum grade of C.

Non-course requirements

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for MATH 71 Intermediate Algebra (Preferably MATH 71 or a college level math course completed).
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.

- 5. A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes.
- 6. Current Healthcare Provider CPR certification.
- 7. Criminal background check and drug screening must be completed prior to any patient contact.

Generic (Registered Nursing) Option Prerequisites Taken Prior to Entry

The following prerequisites must be completed prior to entering the Generic ADN Option. These courses cannot be in progress.

| Course Prefix | Course Name | Units |
|---------------|-------------------------------|-------|
| ANAT 35 | Human Anatomy | 5 |
| ANAT 10A | Introductory Human Anatomy | 4 |
| ANAT 36 | Human Physiology | 5 |
| ANAT 10B | Introductory Human Physiology | 4 |
| MICR 1 | Principles of Microbiology | 5 |
| MICR 22 | Microbiology | 4 |
| ENGL 1A | Freshman Composition | 4 |
| or ENGL 1AH | Freshman Composition - Honors | |

Steps for Applying to the Associate Degree in Nursing (ADN) Generic Program

The application filing period does not begin until the announced application period. Two application periods in a year for enrollment of the Fall and Spring semesters. Applicants can prepare for the filing period by following the seven steps below.

- Get a Mt. SAC ID number (if you don't already have one.) To do this, go to www.mtsac.edu/apply/ (http://www.mtsac.edu/apply) (Apply to Mt. SAC Now!). This can take up to two weeks to process. You need a Mt. SAC ID number in order to apply to the RN program. If you are a current or returning student and already have an ID number you do not need to apply again.
- 2. Prerequisites and general education requirements. Prerequisites must be completed prior to applying to the Nursing Program. Due to the intensity of the Nursing Program, it is highly recommended that all general education requirements also be completed prior to entry.
- 3. Review the multi-criteria screening process grid. This will help you determine your eligibility to enter the Nursing Program at Mt. SAC.
- 4. Take the HESI A2 Assessment Test. Students who have taken the HESI at any location other than Mt.SAC can contact Elsevier Customer Services to request that their official HESI A2 results be sent directly to Mt. SAC's Nursing Program.
- 5. Gather ALL required documents. Using the multi-criteria screening form, compile all required supporting documentation. Documents need to be in PDF format or you may use an iPhone/iPad to upload pictures of documents.
- 6. Apply online during the open application filing period. The online link will only be available during the application period. Please check on-line at http://www.mtsac.edu/nursing for the application period. Applications will only be accepted during this time frame. You will need to upload your supporting documentation. Before submitting your application, you must review all uploaded documents to verify that the documents are legible and clear. Unreadable or inaccurate documents will result in the rejection of your application.
- Counseling Appointment: If you are selected as a candidate for the Nursing Program, you will need to make an appointment with a designated

Nursing Educational Advisor or Counselor. During this appointment you will need to bring your official sealed transcripts for review.

All applicants are required to meet the essential functions for success in the nursing program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

(May be corrected with adaptive devices)

- · Color vision: ability to distinguish and identify colors
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- · Subject to many interruptions
- · Requires judgment/action which could result in death of a patient
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

REGARDING LICENSURE

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offender crimes, acts involving narcotics, dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure, should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at www.rn.ca.gov (http://www.rn.ca.gov).

Contact:

California Board of Registered Nursing 1747 North Market Boulevard, Suite 150 Sacramento, CA 95834 (916) 322-3350 www.rn.ca.gov (http:// www.rn.ca.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Satisfy employers with the educational preparation of the Mt. SAC Nursing graduates.
- Score above the national average on the comprehensive predictor exam.
- Take the NCLEX exam for the 1st time and will cumulatively score above the national average.
- Deliver safe and competent patient care as newly licensed registered nurses.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Ornamental Horticulture, AS

Natural Sciences Division Degree S0119

The courses in ornamental horticulture are designed to enable students to prepare for exciting careers in the essential and diverse horticulture profession. Careers in nursery management, retail garden centers, landscape design, installation and maintenance, arboretum and botanic gardens, arboriculture, interior landscaping, education, and research are just some of the options.

This degree is part of our comprehensive agricultural sciences program. Our program is unique in that most courses provide hands-on experience and are designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

Listed below are the courses needed to satisfy major requirements. It is recommended that students consult with the department chairperson, advisor or counselor to file an educational plan. For additional information, please call the Agricultural Sciences Department, ext. 4540, or visit the Mt. SAC Web site at Agricultural Sciences. (http:// www.mtsac.edu/agriculture)

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | 3 |
| AGOR 1 | Horticultural Science | 3 |
| AGOR 2 | Plant Propagation/Greenhouse Management | 3 |
| AGOR 13 | Landscape Design | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 32 | Landscaping and Nursery Management | 3 |

| AGOR 39 | Turf Grass Production and Management | 3 |
|-------------------|---|-------|
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| Complete one to f | four units from the following course: | |
| AGOR 91 | Work Experience in Horticulture | 1-4 |
| Choose six units | from the following: | 6 |
| AGOR 15 | Interior Landscaping | |
| AGOR 35 | Ornamental Plants for Southwest Climates | |
| AGOR 40 | Sports Turf Management | |
| AGOR 51 | Tractor and Landscape Equipment Operations | |
| AGOR 53 | Small Engine Repair I | |
| AGOR 63 | Irrigation Systems Management | |
| AGOR 72 | Landscape Hardscape Applications | |
| AGOR 75 | Urban Arboriculture | |
| CISB 15 | Microcomputer Applications | |
| Total Units | | 43-46 |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be technically proficient.
- Demonstrate professional conduct in the industry.
- · Be able to give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Paralegal/Legal Assistant, AS

Business Division

Degree S0310

The paralegal program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyer. The California Business & Professions Code, Section 6450 et seq, governs paralegals in California.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| PLGL 30 | Introduction to Paralegal/Legal | 3 |
| PLGL 31A | Legal Analysis and Writing | 3 |
| PLGL 31B | Advanced Legal Analysis and Writing | 3 |
| PLGL 33A | Civil Procedure I | 3 |
| PLGL 33B | Civil Procedure II | 3 |
| PLGL 35A | Law Office Procedures | 3 |
| PLGL 35B | Law Office Technology | 3 |

| PLGL 37 | Tort Law | 3 |
|----------------|--|----|
| PLGL 38 | Employment and Ethical Issues in Paralegalism | 2 |
| PLGL 39 | Contract Law | 3 |
| Choose two cou | urses from the following: | 6 |
| PLGL 40 | Landlord-Tenant Law | |
| PLGL 41 | Property Law | |
| PLGL 42 | Family Law | |
| PLGL 43 | Wills and Trusts | |
| PLGL 44 | Bankruptcy Law | |
| PLGL 45 | Creditors' Rights | |
| PLGL 48 | Criminal Law and Procedures | |
| PLGL 49 | Evidence Law | |
| PLGL 50 | Comparative Law | |
| BUSL 18 | Business Law | |
| or BUSL 1 | 8HBusiness Law - Honors | |
| BUSL 19 | Advanced Business Law | |
| BUSL 20 | International Business Law | |
| Total Units | | 35 |

Paralegal Program Website (http://www.mtsac.edu/paralegal)

The Paralegal/Legal Assistant program is approved by the American Bar Association.

Contact:

American Bar Association 321 N. Clark Street, 19th Floor Chicago, IL 60654-7598 (312)988-5618 www.americanbar.org (http://www.americanbar.org)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Have increased confidence in basic paralegal skills.
- Competently prepare basic legal documents such as motions and discovery, as they would be asked to do under the direction and supervision of a licensed attorney.
- · Have earned LexisAdvance certification for paralegals.
- · Have earned Westlaw certification for paralegals.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Park and Sports Turf Management, AS

Natural Sciences Division Degree S0116

The courses in park and sports turf management are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences Program. The program is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

This program is intended to prepare students to manage a park or sports facility and also for employment following graduation. Students will learn how to design, install and manage irrigation systems, set up and implement fertilizer and pest management programs, design and properly install a complete landscape (including all plants and hardScape), and properly identify and maintain trees, shrubs and turf grasses. In addition, students will learn about personnel management, budgeting and other management topics.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| AGOR 4 | Park Management | 3 |
| AGOR 5 | Park Facilities | 3 |
| AGOR 13 | Landscape Design | 3 |
| AGOR 24 | Integrated Pest Management | 3 |
| AGOR 29 | Ornamental Plants - Herbaceous | 3 |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3 |
| AGOR 39 | Turf Grass Production and Management | 3 |
| AGOR 40 | Sports Turf Management | 3 |
| AGOR 50 | Soil Science and Management | 3 |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3 |
| AGOR 62 | Irrigation Principles and Design | 3 |
| AGOR 63 | Irrigation Systems Management | 3 |
| AGOR 71 | Construction Fundamentals | 3 |
| AGOR 73 | Landscaping Laws, Contracting, and Estimating | 3 |
| AGOR 75 | Urban Arboriculture | 3 |
| Complete one to | four units from the following course: | |
| AGOR 91 | Work Experience in Horticulture | 1-4 |
| Total Units | | 46-49 |

Horticulture Website (http://www.mtsac.edu/horticulture)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Demonstrate professional conduct in the industry.
- · Be able to give a professional quality oral presentation
- Be able to formulate and propose an all-inclusive management
 program for a sports turf area
- Be able to demonstrate proper pruning skills for pruning woody trees and shrubs.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Pet Science, AS

Natural Sciences Division Degree S0104

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson, counselor or advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a bachelor's degree should consult with the department chairperson, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| AGAN 1 | Animal Science | 3 |
| AGAN 2 | Animal Nutrition | 3 |
| AGAN 51 | Animal Handling and Restraint | 3 |
| AGAN 94 | Animal Breeding | 3 |
| AGLI 96 | Animal Sanitation and Disease Control | 3 |
| AGPE 70 | Pet Shop Management | 3 |
| AGPE 71 | Canine Management | 3 |
| AGPE 72 | Feline Management | 3 |
| AGPE 73 | Tropical and Coldwater Fish Management | 2 |
| AGPE 74 | Reptile Management | 2 |
| AGPE 76 | Aviculture - Cage and Aviary Birds | 3 |
| Total Units | | 31 |

Animal Sciences Website (http://www.mtsac.edu/animal)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be able to identify the common species & breeds of livestock.
- · Be able to identify common breeds of small animals.
- Be able to address animal welfare requirements when designing and implementing an animal management system.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Photography, AS

Arts Division

Degree S1002

This program is designed to prepare the student for employment in the field of photography. A variety of career opportunities are available in photography, art, cinema, communications, industrial arts, graphics, and journalism. Student desiring a bachelor's degree should consult with an advisor or catalog of the institution they wish to attend regarding transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-------------------|--|-------|
| Choose one from | n the following: | 1 |
| PHOT 1A | Laboratory Studies: Beginning Black and White Photography | |
| PHOT 1B | Laboratory Studies: Advanced Black and White Photography | |
| PHOT 1C | Laboratory Studies: Studio Photography | |
| PHOT 1D | Laboratory Studies: Computer Applications in Photography | |
| Plus the followin | ng courses: | |
| PHOT 9 | Digital Image Editing for Photographers | 3 |
| PHOT 10 | Basic Digital and Film Photography | 3 |
| PHOT 11A | Intermediate Photography | 3 |
| PHOT 11B | Digital Capture Workflow | 3 |
| PHOT 14 | Commercial Lighting | 3 |
| PHOT 15 | History of Photography | 3 |
| PHOT 20 | Color Photography | 3 |
| PHOT 28 | Photography Portfolio Development | 3 |
| PHOT 29 | Studio Business Practices for Commercial Artists | 3 |
| PHOT 12 | Photographic Alternatives | 3 |
| or PHOT 16 | Fashion and Editorial Portrait Photography | |
| or PHOT 18 | Portraiture and Wedding Photography | |
| PHOT 24 | Advanced Digital Image Editing for Photographers | 3 |
| or PHOT 26 | Video for Photographers | |
| PHOT 17 | Photocommunication | 3 |
| or PHOT 30 | Advertising Photography | |
| Total Units | | 37 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------|-------|
| AHIS 1 | Understanding the Visual Arts | 3 |
| or ARTB 1 | Understanding the Visual Arts | |

Photography Website (http://www.mtsac.edu/photography)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Use critical thinking skills and be able to analyze and assess photographic situations, solve technical problems, and overcome creative challenges as they arise in the production of high quality still and motion imagery for professional, editorial, commercial or fine art applications.
- Design and construct still and motion imagery that can communicate ideas or narratives effectively for commercial, editorial, or fine art purposes.
- Have the knowledge and skills pertinent to the operation of a freelance photography business and sound business practices in the trade.
- Usefully participate in the collaborative environment of commercial art fields.
- Analyze, discuss, and critique the various technical, aesthetic, conceptual, historical and cultural aspects of a photograph.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Psychiatric Technician to RN, AS

Technology and Health Division

Degree S1209

The Mt. San Antonio College Nursing Program, approved by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education, and clinical nursing practice at local hospitals and health agencies.

Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

The Licensed Psychiatric Technician is provided career mobility into the Nursing Program to earn as Associate Degree in Nursing.

This degree requires the completion of General Education coursework plus the following:

Requirements for Nursing

| • | • | |
|------------|--|-------|
| Course | Title | Units |
| Semester 1 | | |
| NURS 3 | Medical-Surgical Nursing: Locomotion/ | 3.5 |
| | Sensory/Integ/Oncology/Immu | |
| NURS 4 | Maternity Nursing | 3 |
| NURS 6 | Pediatric Nursing | 3 |
| | Units | 9.5 |
| Semester 2 | | |
| NURS 7 | Medical-Surgical Nursing: Nutrition/ | 7 |
| | Elimination/ Surgical Asepsis | |
| | Units | 7 |
| Semester 3 | | |
| NURS 8 | Medical-Surgical Nursing: Circulation | 5 |
| | and Oxygenation | |
| NURS 9 | Leadership in Nursing | 1 |
| NURS 10 | Medical-Surgical Nursing: Integration/ | 4 |
| | Regulation | |
| NURS 11 | Preceptorship in Nursing | 2 |
| | Units | 12 |
| | Total Units | 28.5 |
| | | |

Requirements for the Major

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| ANAT 35 | Human Anatomy | 5 |
| ANAT 36 | Human Physiology | 5 |
| ANAT 10A | Introductory Human Anatomy | 4 |
| ANAT 10B | Introductory Human Physiology | 4 |
| MICR 1 | Principles of Microbiology | 5 |
| MICR 22 | Microbiology | 4 |
| ENGL 1A | Freshman Composition | 4 |
| CHLD 10 | Child Growth and Lifespan Development | 3 |
| or PSYC 14 | Developmental Psychology | |
| PSYC 1A | Introduction to Psychology | 3 |

| SPCH 1A | Public Speaking |
|-----------|--|
| or SPCH 2 | Fundamentals of Communication |
| or SPCH 8 | Professional and Organizational Speaking |

NOTE: Applicants planning to continue their education and enter a baccalaureate program in nursing will need to meet with a counselor or educational advisor to discuss transferability of courses.

Requirements for the Associate Degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the A.S. degree. Contact the Counseling Department at (909) 274-4380 to schedule an appointment.

Requirements for Nursing

| Course Prefix | Course Name | Units |
|---------------------------|---|--------|
| Requirements for | r Nursing | |
| NURS 3 | Medical-Surgical Nursing: Locomotion/ Sensory/Integ/Oncology/Immu | 3.5 |
| NURS 4 | Maternity Nursing | 3 |
| NURS 6 | Pediatric Nursing | 3 |
| NURS 7 | Medical-Surgical Nursing: Nutrition/ Elimination/ Surgical Asepsis | 7 |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5 |
| NURS 9 | Leadership in Nursing | 1 |
| NURS 10 | Medical-Surgical Nursing: Integration/ Regulation | 4 |
| NURS 11 | Preceptorship in Nursing | 2 |
| Requirements for | r Major | |
| ANAT 35 & ANAT 36 | Human Anatomy and Human Physiology | 8-10 |
| or ANAT 10A & ANAT 10B | Introductory Human Anatomy and Introductory Human Physiology | |
| MICR 1 | Principles of Microbiology | 4-5 |
| or MICR 22 | Microbiology | |
| ENGL 1A or ENGL 1AH | Freshman Composition Freshman Composition - Honors | 4 |
| CHLD 10 | Child Growth and Lifespan Development | 3 |
| or CHLD 10H or PSYC 14 | Child Growth and Lifespan Development- Honors Developmental Psychology | |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| SPCH 1A | Public Speaking | 4 |
| or SPCH 1AH | Public Speaking - Honors | |
| or SPCH 2 | Fundamentals of Communication | |
| or SPCH 8 | Professional and Organizational Speaking | |
| or SPCH 8H | Professional and Organizational Speaking - Hono | ors |
| Total Units | 54. | 5-57.5 |

Nursing Website (http://www.mtsac.edu/nursing)

Prerequisite Courses

| Course Prefix | Course Name | Units |
|----------------|---------------------------------------|-------|
| Human Anatomy | , includign a laboratory component. | 4 |
| Human Physiolo | gy, including a laboratory component. | 4 |

| Microbiology, including a laboratory component. | | 4 |
|---|--|---|
| ENGL 1A | Freshman Composition ¹ | 4 |
| PSYC 1A | Introduction to Psychology | 3 |
| CHLD 10 | Child Growth and Lifespan Development 2 | 3 |
| or PSYC 14 | Developmental Psychology | |

¹ Minimum grade of C.

4

Non-course requirements

- An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility forMATH 71 (http://catalog.mtsac.edu/archive/2017-2018/ search/?P=MATH%2071) (Preferably MATH 71 (http:// catalog.mtsac.edu/archive/2017-2018/search/?P=MATH%2071) or a college level math course completed).
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Possess a current, active California PsychiatricTechnician License.
- 6. Criminal background check and drug screening must be completed prior to any patient contact.
- 7. A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes.
- 8. Current Healthcare Provider CPR certification
- 9. Nursing 70: Role Transition must be completed with a credit grade prior to entrance into the program. (Due to the clinical component of NURS 70 (http://catalog.mtsac.edu/archive/2017-2018/search/? P=NURS%2070), applicants must submit their names to the Nursing Office forapproval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Psychiatric Technician License, physical, CPR card, Background Check, and drug testing prior to the start of class.)

Selection Process

Students applying for admission to the Nursing Program are required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established and the Admission Assessment Test has been passed, students will enter on a first come first served basis.

The Eligibility Appointment

- 1. Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
- Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges.
 - b. If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus.

 ² CHLD 10 or PSYC 14 must be completed prior to entrance into NURS 6.

- c. Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions & Records Office).
- d. Due to specific college deadlines for International Student application, please inform the Counseling/Educational Advisor that this applies to you.
- e. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States. Students should also be aware that once they have been admitted to the Nursing Program and before beginning the clinical portion of the Program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for Welfare or Social Security fraud, as well as testing negative for drug use.

All applicants are required to meet the essential functions for success in the Nursing Program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

(May be corrected with adaptive devices)

- · Color vision: ability to distinguish and identify colors
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationships
- · Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- Subject to many interruptions
- · Requires judgment/action which could result in death of a patient
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

REGARDING LICENSURE

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offender crimes, acts involving narcotics, dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure, should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at www.rn.ca.gov.

Contact:

California Board of Registered Nursing 1747 North Market Boulevard, Suite 150 Sacramento, CA 95834 (916) 322-3350 www.rn.ca.gov/ (http:// www.rn.ca.gov)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

• Complete the Role Transition course to be accepted into the Nursing Program in the second semester.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Public Health, AS

Natural Sciences Division

Degree S0428

The AS degree in Public Health at Mt San Antonio College is an interdisciplinary program grounded in the biological sciences and designed to prepare students for entry level employment in public health fields. Students completing this program will exemplify a high level of health literacy and will be exposed to a large variety of disciplines. Through this preparation, they will improve their understanding of the relationship of the environment to health, recognize and evaluate the economic impact of changing demographics on health care, identify and control disease outbreaks, and develop interventions to promote healthy behavior. Successful completion of this degree can lead to employment opportunities as a community or public health care worker, health educator, epidemiologist, and occupational and safety technician, as well as other health-related careers. In addition, this program can provide advancement opportunities for those completing other CTE programs in health care, such as nursing. In order to ensure adequate preparation in this field and to allow for training in specialty areas, such as environmental health, program completion requires a minimum of 61 and maximum of 64 unit credits, depending on which required courses students complete. This suggests that some students may require an additional semester or more for completion, depending on their level of preparation on entering the program. Community college programs in public health are not yet accredited by ASPPH. This program follows the guidelines of the ASPPH in hopes that accreditation will follow as more associate level students enter the public health workforce.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|------------------------|--|-------|
| Select one of the | following sequences: | 8-10 |
| ANAT 10A & ANAT 10B | Introductory Human Anatomy and Introductory Human Physiology | |
| ANAT 35 & ANAT 36 | Human Anatomy and Human Physiology | |
| ANTH 5 | Principles of Cultural Anthropology | 3 |
| or ANTH 22 | General Cultural Anthropology | |
| or SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| MICR 1 | Principles of Microbiology | 4-5 |
| or MICR 22 | Microbiology | |
| MATH 110 | Elementary Statistics | 3 |
| or MATH 110H | Elementary Statistics - Honors | |
| or PSYC 10 | Statistics for the Behavioral Sciences | |
| PUBH 22 | Introduction to Epidemiology | 3 |
| PUBH 26 | Introduction to Global Public Health | 3 |
| PUBH 27 | Public Health and the Environment | 3 |
| or PUBH 28 | Public Health and Bioethics | |
| BIOL 1 | General Biology | 4 |
| or BIOL 2 | Plant and Animal Biology | |
| PUBH 24 | Introduction to Public Health | 3 |
| NF 25 | Introduction to Nutrition Science | 3 |
| or NF 25H | Introduction to Nutrition Science - Honors | |
| Choose six units | from the following: | 6 |
| BIOL 5 | Contemporary Health Issues | |
| PUBH 29 | Public Health Microbiology | |
| PUBH 30 | Principles of Public Health and Infectious Disease Epidemiology | |
| MICR 26 | Introduction to Immunology | |
| Total Units | | 43-46 |
| | | |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Explain how the history, philosophy, and literature of public health reflect broader social influences and movements that influence our view of health.
- Explain the population health perspective and the methods used in public health to define and address population-wide/social concerns and the needs of vulnerable populations through the provision of essential services.
- Apply options for intervention frameworks including when (primary, secondary, tertiary), who (individual, population at risk, general population), and how(education, motivation, obligation)to intervene.
- Explain principles of epidemiology that are necessary in order to understand health and impairments of health, including the uses of rates, the meaning of causation, and the evaluation of the effectiveness of interventions.
- Apply the principles of epidemiology to assigned reading of research articles, including case-control, cohort studies, and randomized clinical trials.
- Explain from a global perspective the burden of disease, socioeconomical determinants of health, the links between health

and development, and approaches to global cooperation to monitor, promote, and protect health.

- Describe biological principles needed to understand public health issues across the life span and apply these principles to public health interventions to eliminate, prevent, and control disease and to minimize the impact of disease on health.
- Explain the use of clinical interventions for assessing, protecting, and improving health and preventing, detecting, treating, and minimizing the impact of disease.
- Explain the way biological, environmental, and social/cultural factors interact in disease production and understand how these influences can impact prevention strategies.
- Describe the historical examples of the changing definitions of public health in a variety of cultures and times, including major scientific advancements.

Radio Broadcasting: Behind the Scenes, AS

Arts Division

Degree S0606

The Radio Broadcasting Behind-the-Scenes degree is designed for students who are interested in the non-performance side of the broadcasting industry. Instruction prepares students for entry-level jobs including production, promotion, copywriting and management. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of courses. Practical hands-on experience is available at the campus radio stations.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| R-TV 01 | Introduction to Electronic Media | 3 |
| R-TV 09 | Broadcast Sales and Promotion | 3 |
| R-TV 10 | Radio Programming and Producer Techniques | 3 |
| R-TV 11A | Beginning Radio Production | 3 |
| R-TV 11B | Advanced Radio Production | 3 |
| R-TV 15 | Broadcast Law and Business Practices | 3 |
| R-TV 96A | Campus Radio Station Lab: Studio Procedures and Equipment Operations | 1 |
| R-TV 96B | Campus Radio Station Lab: Disc Jockey & News Anchor/Reporter Skills | 1 |
| R-TV 96C | Campus Radio Station Lab: Hosting and Management Skills | 1 |
| R-TV 97A | Radio/Entertainment Industry Seminar | 1 |
| R-TV 97B | Radio/Entertainment Industry Work Experience | 1 |
| Choose six units | from the following: | 6 |
| R-TV 05 | Radio-TV Newswriting | |
| R-TV 06 | Broadcast Traffic Reporting | |
| R-TV 17 | Internet Radio and Podcasting | |
| R-TV 31 | History of Radio DJs | |
| R-TV 32 | Social Media in Broadcasting | |
| R-TV 35 | Pop Culture in the Media | |

| R-TV 99 | Special Projects in Broadcasting and Entertainment Industry | |
|-------------|--|----|
| R-TV 101 | Work Experience in Broadcast Entertainment | |
| Total Units | | 29 |

Radio Broadcasting Website (http://www.mtsac.edu/radio)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Work in production, programming or a variety of other behind-thescenes positions at a commercial radio station.
- · Use studio equipment to record and edit a pre-recorded piece.
- · Operate the studio equipment required to produce a live broadcast.
- Use social media during a live radio show to engage with the audience.
- · Develop and implement ideas for a radio show.
- · Develop a format for a radio station.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Radio Broadcasting: On the Air, AS

Arts Division

Degree S0605

The Radio Broadcasting On-The-Air degree is designed to prepare students for an entry-level job in performance areas of the broadcasting industry, including disc jockey, news anchor, sportscaster, and commercial voice-overs. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| R-TV 01 | Introduction to Electronic Media | 3 |
| R-TV 02 | On-Air Personality Development | 3 |
| R-TV 05 | Radio-TV Newswriting | 3 |
| R-TV 07A | Beginning Commercial Voice-Overs | 3 |
| R-TV 11A | Beginning Radio Production | 3 |
| R-TV 15 | Broadcast Law and Business Practices | 3 |
| R-TV 17 | Internet Radio and Podcasting | 3 |
| R-TV 96A | Campus Radio Station Lab: Studio Procedures and Equipment Operations | 1 |
| R-TV 96B | Campus Radio Station Lab: Disc Jockey & News Anchor/Reporter Skills | 1 |
| R-TV 96C | Campus Radio Station Lab: Hosting and Management Skills | 1 |
| R-TV 97A | Radio/Entertainment Industry Seminar | 1 |
| R-TV 97B | Radio/Entertainment Industry Work Experience | 1 |
| Choose six units | from the following: | 6 |
| R-TV 03 | Sportscasting and Reporting | |
| R-TV 04 | Broadcast News Field Reporting | |

| R-TV 06 | Broadcast Traffic Reporting | |
|-------------|--|----|
| R-TV 09 | Broadcast Sales and Promotion | |
| R-TV 10 | Radio Programming and Producer Techniques | |
| R-TV 11B | Advanced Radio Production | |
| R-TV 31 | History of Radio DJs | |
| R-TV 32 | Social Media in Broadcasting | |
| R-TV 35 | Pop Culture in the Media | |
| R-TV 99 | Special Projects in Broadcasting and Entertainment Industry | |
| R-TV 101 | Work Experience in Broadcast Entertainment | |
| Total Units | | 32 |

Radio Broadcasting Website (http://www.mtsac.edu/radio)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Work as a DJ or newscaster on a commercial radio station.
- Use the studio equipment to record and edit a pre-recorded piece.
- Plan, set-up and perform a radio station remote as an on-air personality.
- Use social media during a live radio show to engage with the audience.
- · Operate the studio equipment required for a live radio broadcast.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Radiologic Technology, AS

Technology and Health Division

Degree S1206

The Radiologic Technology program, which is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), is designed to prepare students to function as certified radiologic technologists. Students will gain knowledge and understanding of the diagnostic uses of x-ray, as well as the technical skills to use x-ray equipment in both laboratory and clinical settings. The courses are developed to enable students to operate x-ray equipment, assist in the diagnosis of disease, and to observe proper medical ethics. Students will learn the nature of radiation, the principles of electricity, the structure of x-ray machines, and the operation of a clinical x-ray department.

To remain in the program, students must maintain a grade of "C" or better in all courses.

Upon completion of the Associate in Sciences degree in Radiologic Technology, graduates are eligible to apply for the registry examination through the American Registry of Radiologic Technologist and the California Certification of Radiologic Technology. This is a licensed profession, and a valid Social Security number is required to obtain state certification and national licensure.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| RAD 1A | Clinical Experience 1A | 5 |
| RAD 1B | Clinical Experience 1B | 3 |
| RAD 2A | Clinical Experience 2A | 5 |
| RAD 2B | Clinical Experience 2B | 3 |
| RAD 3A | Clinical Experience 3A | 7.5 |
| RAD 3B | Clinical Experience 3B | 3 |
| RAD 3C | Clinical Experience 3C | 7.5 |
| RAD 4 | Clinical Experience 4 | 4.5 |
| RAD 30 | Radiographic Pathology | 1.5 |
| RAD 31 | Fluoroscopy and Radiobiology | 4 |
| RAD 32 | Digital Imaging in Radiology | 2 |
| RAD 50 | Introduction to Radiologic Science and | 3 |
| | Health Care | |
| RAD 61A | Theory of Radiologic Technology | 4 |
| RAD 61B | Radiographic Procedures I | 3 |
| RAD 61C | Radiographic Procedures I Laboratory | 1.5 |
| RAD 62A | Theory of Radiologic Technology | 4 |
| RAD 62B | Radiographic Procedures II | 3 |
| RAD 62C | Radiographic Procedures II Laboratory | 1.5 |
| RAD 63 | Theory of Radiologic Technology | 4 |
| RAD 64 | Theory of Radiologic Technology | 4 |
| RAD 91 | Patient Care in Radiologic Sciences | 3 |
| Total Units | | 77 |

Radiologic Technology Website (http://www.mtsac.edu/radiologic)

Admission Requirements

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. File a college application and be accepted as a student at Mt. San Antonio College.
- 2. Take the college placement examination which is used as an indicator. If you have already taken a college placement test exam within the past two years at another school, arrange to have your scores forwarded to the Health Careers Resource Center. (If you were tested at Mt. San Antonio College, the Health Careers Resource Center will obtain the test scores as long as an "Application for Admission" is on file with the Admission and Records Office.) Arrangement should be made with the Service Center to Schedule a date and time to take the college placement examination if required. The Assessment Center is open Monday through Friday. You may contact them at (909) 274-7500 ext. 4265. For students who possess a college degree, the English placement test is not required, however, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to Health Careers Resource Center and the other to Admission and Records. If the courses were taken and /or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Request the transcript for the Division Office be addressed as follows:

Mt. San Antonio College Health Careers Resource Center, Bldg. 67B, Room 250 Radiologic Technology Program 1100 North Grand Avenue Walnut CA 91789-1299

- 3. Forward two official transcripts of all coursework completed (high school, and other than Mt. San Antonio College courses). One transcript must be sent to the Health Careers Resource Center and the other to Admission and Records.
- Submit an application for the Radiologic Technology Program to the Health Careers Resource Center (909) 274-4788. All applications are dated upon receipt in the Health Careers Resource Center. A program begins each summer intersession.
- 5. Applicant must be 18 years of age upon entrance into the program.
- 6. High school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
- 7. Possess a valid Social Security Card. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.
- Complete all AS degree General Education requirements to include program prerequisites listed below (i) before admission to the program. Students are required to make an appointment with an educational advisor to review general education requirements for graduation.
- 9. Complete the following prerequisite courses with a minimum grade of "C" in each course. Students must complete prerequisite courses before admission to the program. Students may seek variances for courses completed at other institutions. Course must be an equivalent course or higher to the courses listed below and transcripts/course outlines must be reviewed by the Department Chair of the appropriate department to seek approval.

| Course Prefix | Course Name | Units |
|---------------|-------------------------------|-------|
| ANAT 10A | Introductory Human Anatomy | 4 |
| or ANAT 35 | Human Anatomy | |
| ANAT 10B | Introductory Human Physiology | 4 |
| or ANAT 36 | Human Physiology | |
| PHYS 1 | Physics | 4 |
| MEDI 90 | Medical Terminology | 3 |

Acceptance Requirements

- 1. A mandatory orientation meeting with the Radiologic Technology Department will be held during the spring semester. You will be contacted with date and time of orientation once you have been accepted.
- A physical examination, including certain immunization and drug testing is required as part of the physical examination for all radiologic technology students before entrance into the clinical setting. Forms and information will be provided at time of orientation.
- 3. All students will be required to pass a criminal background check prior to entering the clinical education phase (a valid Social Security number is required to complete this process.)

Selection Procedure

Selection of students is based upon the completion of the above admission requirements and date of application. The Department will make every effort to notify the applicant of the acceptance by mail no less than one month prior to beginning of a program.

Program Completion Requirements

- 1. All students entering the Radiologic Technology Program **must** complete all the major course requirements and the general education requirements necessary to complete the Associate degree before a certificate documenting completion in Radiologic Technology will be given. This certificate will permit the student to apply for the registry exam through the American Registry of Radiologic Technologist and the California Certification of Radiologic Technology.
- 2. In addition to the major requirements and general education, students must also complete a course in venipuncture for radiographers. This course is offered through Continuing Education but may be taken elsewhere with prior approval from the department.
- 3. A course in mammography is also offered in the final semester for graduate students and licensed radiographers. This course is optional.

Working Environment

- May be exposed to infectious and contagious disease, without prior notification
- · Regularly exposed to the risk of blood borne diseases
- · Exposed to hazardous agent, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to hazards of flammable, explosive gases
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- · Handle emergency or crisis situations
- · Subject to many interruptions
- · Requires decisions/actions critical to patient safety
- · Exposed to products containing latex

Required Skills and Physical Abilities

In order to ensure student and patient safety and welfare, the radiologic technology student must have sufficient strength, motor coordination, manual dexterity, intellectual capacity, and sensory functions to be able to:

- 1. Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
- 2. Lift arms above the head to move the x-ray tube assembly.
- 3. Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
- 4. Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
- Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
- 6. Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.
- 7. Function adequately under stressful situations related to technical and procedural standards of patient care situations.

- 8. Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from individuals remote from the location of the student.
- 9. Speak English clearly enough to explain and direct procedural information to patients, and to communicate with physicians, technical staff, and faculty. Students for which English is a second language may be required to complete a verbal communication assessment prior to entering the program.
- 10. Calculate and select proper technical exposure factors according to the individual needs of the patient's condition and requirements of the procedure with speed and accuracy.
- 11. View and evaluate the recorded images of a radiograph for the purpose of identifying proper patient positioning, accurate procedural sequencing, proper exposure (and/or "s" number), and other established technical qualities.

English Language Skills

Although proficiency in English is not a criterion for admission into the Radiologic Technology Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

The Radiologic Technology program is accredited by The Joint Review Committee in Radiologic Technology (JRCERT).

Contact:

The Joint Review Committee in Radiologic Technology (JRCERT) 20 North Wacker Drive, Suite 2850 Chicago, IL 60606-3182 (312)704-5300 http://www.jrcert.org/

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Apply accurate positioning skills
- · Select optimal technical factors
- Utilize appropriate radiation protection
- · Demonstrate effective written communication skills
- · Demonstrate effective oral communication skills
- · Adapt standard procedures as needed
- · Critique images to determine diagnostic quality
- · Determine corrective measures for non-diagnostic images
- Provide patient-centered, clinically effective care for all patients regardless of age, gender, disability, special needs, ethnicity or culture
- · Demonstrate professional work ethics
- · Participate in professional development activities
- Pass the ARRT examination
- · Secure employment in the radiology profession
- Be well prepared to function as a competent entry-level radiologic technologist

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Real Estate, AS

Business Division Degree S0512

This program prepares students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. The requirements for a degree in real estate include the eight classes needed prior to applying to take the Real Estate Broker License Exam as well as several additional classes designed to strengthen the skills needed to succeed in a career in real estate.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| BUSR 50 Real Estate Principles 3 BUSR 51 Legal Aspects of Real Estate 3 BUSR 52 Real Estate Practice Work Experience 3 BUSR 52 Real Estate Practice Work Experience 3 BUSR 53 Real Estate Finance 3 BUSR 55 Real Estate Economics 3 BUSR 81 Appraisal: Principles and Procedures 3.5 CISB 15 Microcomputer Applications 3.5 Group A Choose two, three, or four courses from the following: 6-12 BUSR 57 Income Tax Aspects of Real Estate Investments BUSR 60 Real Estate Investment Planning BUSR 60 Real Estate Investment Planning BUSR 62 Mortgage Loan Brokering and Lending BUSR 76 Escrow Procedures I Group B Choose zero, one, or two courses from the following: 0-10 BUSA 7 Principles of Accounting - Financial BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 73 Principles of Business BUSM 60 Human Relations in Business BUSM 60 Human Relations in Business BUSM 60 Fundamentals of Accounting BUSA 70 Principles of Business BUSM 60 Human Relations in Business BUSM 60 Fundamentals of Accounting BUSA 70 Principles of Business BUSM 60 Fundamentals of Accounting BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 73 Principles of Business BUSM 60 Fundamentals of Accounting BUSA 74 Principles of Business BUSM 60 Fundamentals of Accounting BUSA 75 Principles of Business BUSM 75 BUSM 75 Principles of Business BUSM 75 BUSM 75 Professional Selling BUSM 75 Professional Selling BUSM 75 Professional Selling BUSM 75 Professional Selling BUSM 75 Principles 75 BUSM 75 Professional Selling BUSM 75 P | | | |
|--|------------------|--|-------|
| BUSR 51 Legal Aspects of Real Estate 3 BUSR 52 Real Estate Practice Work Experience 3 BUSR 52D Real Estate Practice Work Experience 3 BUSR 53 Real Estate Finance 3 BUSR 55 Real Estate Economics 3 BUSR 81 Appraisal: Principles and Procedures 3.5 CISB 15 Microcomputer Applications 3.5 Group A Choose two, three, or four courses from the following: 6-12 BUSR 57 Income Tax Aspects of Real Estate Investments BUSR 60 Real Estate Property Management BUSR 60 Real Estate Property Management BUSR 62 Mortgage Loan Brokering and Lending BUSR 76 Escrow Procedures I Group B Choose zero, or two courses from the following: 0-10 BUSA 7 Principles of Accounting - Financial BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSM 60 Human Relations in Business BUSM 60 Human Relations in Business BUSM 60 Small Business Law or BUSL 18HBusiness Law - Honors BUSM 60 Human Relations in Business BUSM 60 Fundamentals of Accounting BUSM 60 Fundamentals of Accounting BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 73 Principles of Business BUSM 60 Fundamentals of Principles of Business BUSM 60 Fundamentals of Accounting BUSA 74 Principles of Business BUSM 60 Fundamentals of Accounting BUSA 75 Business Law - Honors BUSM 70 Principles of Business BUSM 70 Principles of Principles 70 Princi | Course Prefix | Course Name | Units |
| BUSR 52 Real Estate Practice 3 or BUSR 52D Real Estate Practice Work Experience 3 BUSR 53 Real Estate Finance 3 BUSR 55 Real Estate Economics 3 BUSR 81 Appraisal: Principles and Procedures 3.5 CISB 15 Microcomputer Applications 3.5 Group A Choose two, three, or four courses from the following: 6-12 BUSR 57 Income Tax Aspects of Real Estate Investments BUSR 59 Real Estate Property Management BUSR 60 Real Estate Property Management BUSR 60 Real Estate Investment Planning BUSR 76 Escrow Procedures I Group B Choose zero, one, or two courses from the following: 0-10 BUSA 7 Principles of Accounting Financial BUSA 7 Principles of Accounting BUSA 72 Bookkeeping - Accounting BUSL 18 Business Law or BUSL 18H Business Law or BUSL 18H Business Law or BUSL 18H Business Law or BUSL 18H Business Law BUSM 60 Human Relations in Business BUSM 60 Small Business Management BUSM 55 Business Communications BUSM 66 Small Business Management BUSN 55 Business Communications for Business BUSM 60 Furniciples of Accounting BUSN 55 Business Communications for Business BUSM 66 Small Business Management BUSN 55 Business Communications for Business BUSN 66 Principles of Marketing PSYC 1A Introduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSR 50 | Real Estate Principles | 3 |
| or BUSR 52D Real Estate Practice Work Experience BUSR 53 Real Estate Finance 3 BUSR 55 Real Estate Economics 3 BUSR 81 Appraisal: Principles and Procedures 3.5 CISB 15 Microcomputer Applications 3.5 Group A Choose two, three, or four courses from the following: 6-12 BUSR 57 Income Tax Aspects of Real Estate Investments BUSR 59 Real Estate Property Management BUSR 60 Real Estate Investment Planning BUSR 60 Real Estate Investment Planning BUSR 76 Escrow Procedures I Group B Choose zero, one, or two courses from the following: 0-10 BUSA 7 Principles of Accounting - Financial BUSA 71 Fundamentals of Accounting BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSA 74 Principles of Business BUSM 60 Human Relations in Business BUSM 60 Human Relations for Business BUSM 60 Small Business Law - Honors BUSM 60 Small Business Law - Business BUSM 60 Human Relations for Business BUSM 60 Funciples of Business BUSM 60 Human Relations for Business BUSM 60 Funciples of Business BUSM 60 Funciples of Principles | BUSR 51 | Legal Aspects of Real Estate | 3 |
| BUSR 53Real Estate Finance3BUSR 55Real Estate Economics3BUSR 81Appraisal: Principles and Procedures3.5CISB 15Microcomputer Applications3.5Group AChoose two, three, or four courses from the following:6-12BUSR 57Income Tax Aspects of Real Estate Investments6BUSR 59Real Estate Property Management8BUSR 60Real Estate Investment Planning8BUSR 76Escrow Procedures I7Group B7Choose zero, one, or two courses from the following:0-10BUSA 7Principles of Accounting - FinancialBUSA 72Bookkeeping - AccountingBUSA 72Bookkeeping - AccountingBUSA 72Bookkeeping - AccountingBUSM 20Principles of BusinessBUSM 60Human Relations in BusinessBUSM 60Human Relations in BusinessBUSN 55Business Lawor BUSL 18H Business Law - HonorsBUSM 60Small Business ManagementBUSO 5Business CommunicationsBUSO 5Business CommunicationsBUSO 25Professional SellingBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AHIntroduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSR 52 | Real Estate Practice | 3 |
| BUSR 55Real Estate Economics3BUSR 81Appraisal: Principles and Procedures3.5CISB 15Microcomputer Applications3.5Group AChoose two, three, or four courses from the following:6-12BUSR 57Income Tax Aspects of Real Estate Investments6BUSR 60Real Estate Property Management8BUSR 60Real Estate Investment Planning6BUSR 76Escrow Procedures I6Group B6Choose zero, one, or two courses from the following:0-10BUSA 7Principles of Accounting - FinancialBUSA 72Bookkeeping - AccountingBUSL 18Business Law or BUSL 18H Business Law - HonorsBUSM 60Human Relations in BusinessBUSN 65Business ManagementBUSO 5Business CommunicationsBUSO 5Business CommunicationsBUSO 26Oral Communications for BusinessBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AHIntroduction to Psychology - Honors | or BUSR 52D | Real Estate Practice Work Experience | |
| BUSR 81 Appraisal: Principles and Procedures 3.5 CISB 15 Microcomputer Applications 3.5 Group A Choose two, three, or four courses from the following: 6-12 BUSR 57 Income Tax Aspects of Real Estate Investments BUSR 59 Real Estate Property Management BUSR 60 Real Estate Investment Planning BUSR 62 Mortgage Loan Brokering and Lending BUSR 76 Escrow Procedures I Group B Choose zero, one, or two courses from the following: 0-10 BUSA 7 Principles of Accounting - Financial BUSA 71 Fundamentals of Accounting BUSA 72 Bookkeeping - Accounting BUSL 18 Business Law or BUSL 18HBusiness Law - Honors BUSM 60 Human Relations in Business BUSM 60 Human Relations in Business BUSM 66 Small Business Management BUSO 5 Business Communications BUSO 25 Professional Selling BUSS 35 Professional Selling BUSS 36 Principles of Marketing PSYC 1A Introduction to Psychology - Honors | BUSR 53 | Real Estate Finance | 3 |
| CISB 15Microcomputer Applications3.5Group A | BUSR 55 | Real Estate Economics | 3 |
| Group AChoose two, three, or four courses from the following:6-12BUSR 57Income Tax Aspects of Real Estate Investments6-12BUSR 59Real Estate Property Management8BUSR 60Real Estate Investment Planning8BUSR 62Mortgage Loan Brokering and Lending8BUSR 76Escrow Procedures I6Group BChoose zero, one, or two courses from the following:0-10BUSA 7Principles of Accounting - FinancialBUSA 71Fundamentals of Accounting0BUSA 72Bookkeeping - Accounting0BUSL 18Business Law or BUSL 18H Business Law - Honors0BUSM 60Human Relations in Business0BUSM 60Business Management0BUSO 5Business Communications0BUSO 5Business Communications0BUSS 35Professional Selling0BUSS 36Principles of Marketing0PSYC 1AIntroduction to Psychology - Honors | BUSR 81 | Appraisal: Principles and Procedures | 3.5 |
| Choose two, three, or four courses from the following:6-12BUSR 57Income Tax Aspects of Real Estate Investments6-12BUSR 59Real Estate Property Management8BUSR 60Real Estate Investment Planning8BUSR 62Mortgage Loan Brokering and Lending BUSR 768BUSR 76Escrow Procedures I6Group B7Principles of Accounting - FinancialBUSA 7Principles of Accounting0-10BUSA 72Bookkeeping - Accounting8BUSL 18Business Law or BUSL 18HBusiness Law - Honors7BUSM 60Human Relations in Business8BUSM 60Small Business Management8BUSO 5Business English8BUSO 25Business Communications8BUSO 26Oral Communications for Business8BUSS 35Professional Selling8BUSS 36Principles of Marketing7PSYC 1AIntroduction to Psychology - Honors7 | CISB 15 | Microcomputer Applications | 3.5 |
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| BUSR 76Escrow Procedures IGroup BChoose zero, one, or two courses from the following:0-10BUSA 7Principles of Accounting - FinancialBUSA 7Principles of AccountingBUSA 71Fundamentals of AccountingBUSA 72Bookkeeping - AccountingBUSL 18Business Lawor BUSL 18HBusiness Law - HonorsBUSM 20Principles of BusinessBUSM 60Human Relations in BusinessBUSM 66Small Business ManagementBUSO 5Business EnglishBUSO 25Business CommunicationsBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology - Honors | BUSR 60 | Real Estate Investment Planning | |
| Group BChoose zero, one, or two courses from the following:0-10BUSA 7Principles of Accounting - FinancialBUSA 11Fundamentals of AccountingBUSA 72Bookkeeping - AccountingBUSL 18Business Lawor BUSL 18HBusiness Law - HonorsBUSM 20Principles of BusinessBUSM 60Human Relations in BusinessBUSM 66Small Business ManagementBUSO 5Business EnglishBUSO 25Business CommunicationsBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology - Honors | BUSR 62 | Mortgage Loan Brokering and Lending | |
| Choose zero, one, or two courses from the following:0-10BUSA 7Principles of Accounting - FinancialBUSA 11Fundamentals of AccountingBUSA 72Bookkeeping - AccountingBUSA 72Bookkeeping - AccountingBUSL 18Business Lawor BUSL 18HBusiness Law - HonorsBUSM 20Principles of BusinessBUSM 60Human Relations in BusinessBUSM 66Small Business ManagementBUSO 5Business EnglishBUSO 25Business CommunicationsBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology - Honors | BUSR 76 | Escrow Procedures I | |
| BUSA 7Principles of Accounting - FinancialBUSA 11Fundamentals of AccountingBUSA 72Bookkeeping - AccountingBUSL 72Bookkeeping - AccountingBUSL 18Business Lawor BUSL 18HBusiness Law - HonorsBUSM 20Principles of BusinessBUSM 60Human Relations in BusinessBUSM 66Small Business ManagementBUSO 5Business EnglishBUSO 25Business CommunicationsBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology - Honors | Group B | | |
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| BUSL 18Business Lawor BUSL 18HBusiness Law - HonorsBUSM 20Principles of BusinessBUSM 60Human Relations in BusinessBUSM 66Small Business ManagementBUSO 5Business EnglishBUSO 25Business CommunicationsBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology - Honors | BUSA 11 | Fundamentals of Accounting | |
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| BUSM 60Human Relations in BusinessBUSM 60Small Business ManagementBUSO 5Business EnglishBUSO 25Business CommunicationsBUSO 26Oral Communications for BusinessBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology - Honors | or BUSL 18 | HBusiness Law - Honors | |
| BUSM 66Small Business ManagementBUS0 5Business EnglishBUS0 25Business CommunicationsBUS0 26Oral Communications for BusinessBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSM 20 | Principles of Business | |
| BUS0 5 Business English BUS0 25 Business Communications BUS0 26 Oral Communications for Business BUSS 35 Professional Selling BUSS 36 Principles of Marketing PSYC 1A Introduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSM 60 | Human Relations in Business | |
| BUS0 25Business CommunicationsBUS0 26Oral Communications for BusinessBUSS 35Professional SellingBUSS 36Principles of MarketingPSYC 1AIntroduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSM 66 | Small Business Management | |
| BUS0 26 Oral Communications for Business BUSS 35 Professional Selling BUSS 36 Principles of Marketing PSYC 1A Introduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSO 5 | Business English | |
| BUSS 35 Professional Selling BUSS 36 Principles of Marketing PSYC 1A Introduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSO 25 | Business Communications | |
| BUSS 36 Principles of Marketing PSYC 1A Introduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSO 26 | Oral Communications for Business | |
| PSYC 1A Introduction to Psychology or PSYC 1AHIntroduction to Psychology - Honors | BUSS 35 | Professional Selling | |
| or PSYC 1AHIntroduction to Psychology - Honors | BUSS 36 | Principles of Marketing | |
| | PSYC 1A | Introduction to Psychology | |
| Total Units 28-44 | or PSYC 1A | HIntroduction to Psychology - Honors | |
| | Total Units | | 28-44 |

Real (http://www.mtsac.edu/realestate)Estate Website (http:// www.mtsac.edu/realestate)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Have the requisite knowledge to pass both the California Real Estate Sales and Broker's Exams.
- · Meet or exceed the state average for success or passage on the state licensing exam.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Registered Veterinary Technology, AS

Natural Sciences Division Degree S0105

The Registered Veterinary Technology Program, which is accredited by the American Veterinary Medical Association, is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive agricultural sciences program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they plan to attend and also the semester and year in which courses are offered.

These programs are intended to prepare students for employment following graduation. Students desiring a bachelor's degree (transfer program) should consult with the Program Director, counselor or advisor to discuss transferability of courses.

This degree is designed to prepare students for careers as Registered Veterinary Technicians who will work under the supervision of licensed private organizations including veterinary hospitals, research vivariums, animal shelters, and other animal care agencies. Students who satisfactorily complete the requirements of this program are eligible to take the appropriate licensing exam to become a Registered Veterinary Technician.

Students wishing to be admitted into the second-year courses will need to meet with the Program Director one semester prior to fill out application and to make sure all program requirements have been met.

Required Courses

| Course Prefix | Course Name | Units |
|-------------------------|--|-------|
| | | Units |
| Required Course | • | |
| AGAN 1 | Animal Science | 3 |
| AGAN 2 | Animal Nutrition | 3 |
| AGAN 51 | Animal Handling and Restraint | 3 |
| AGHE 54 | Veterinary Office Procedures | 3 |
| AGHE 64 | Veterinary Pharmacology | 3 |
| AGHE 79 | Laboratory Animal Medicine and Care | 3 |
| AGHE 86 | Anatomy and Physiology of Domestic Animals | 4 |
| AGLI 96 | Animal Sanitation and Disease Control | 3 |
| Required Course | es, 2nd year | |
| AGHE 60 | Medical Nursing and Animal Care | 4 |
| AGHE 61 | Animal Surgical Nursing | 4 |
| AGHE 62A | Clinical Pathology | 4 |
| AGHE 62B | Clinical Pathology | 4 |
| AGHE 65 | Veterinary Radiography | 2 |
| AGHE 84B | Applied Animal Health Procedures | 1 |
| AGHE 85 | Seminar in Registered Veterinary Technology | 1 |
| AGHE 83A | Work Experience in Animal Health ¹ | 4 |
| Bequired Electiv | les | |

Required Electives

| Choose six unit | s from the following: | 6 |
|-----------------|--|----|
| AGAN 94 | Animal Breeding | |
| AGLI 12 | Exotic Animal Management | |
| AGLI 14 | Swine Production | |
| AGLI 16 | Horse Production and Management | |
| AGLI 17 | Sheep Production | |
| AGLI 18 | Horse Ranch Management | |
| AGLI 19 | Horse Hoof Care | |
| AGLI 30 | Beef Production | |
| AGPE 70 | Pet Shop Management | |
| AGPE 71 | Canine Management | |
| AGPE 72 | Feline Management | |
| AGPE 73 | Tropical and Coldwater Fish Management | |
| AGPE 74 | Reptile Management | |
| AGPE 76 | Aviculture - Cage and Aviary Birds | |
| Total Units | | 55 |

¹ Complete four units of AGHE 83A.

Registered Veterinary Technology Website (http://www.mtsac.edu/vettech)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Be able to successfully perform all of the skills on the AVMA Task List.
- Be able to successfully obtain an entry level position as a veterinary technician.
- Be able to successfully pass the Veterinary Technician's National Exam (VTNE).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Respiratory Therapy, AS

Technology and Health Division Degree S1205

The Respiratory Therapy Program, which is accredited by the Committee on Accreditation for Respiratory Care (COARC), is designed to train students to function as Respiratory Therapists.

Respiratory Therapy is the application of technical skills involving a complete understanding of cardiopulmonary physiology and recognition of various pathological conditions that alter the patient's ability to breathe effectively.

By applying medical gases under pressure - i.e., compressed air, oxygen, and other mixtures - to the airways through the use of various kinds of equipment, the therapist, under the direction of the physician, treats the diseased or ineffective respiratory system.

Some mechanical aptitude and the ability to perform fine motor movements with hands and fingers is required in learning the operation of specialized equipment. This includes diagnostic apparatus which aids the physician in detecting cardiorespiratory diseases.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| RESD 50 | Theory and Principles of Respiratory Therapy | 2 |
| RESD 51A | Respiratory Therapy Science | 4 |
| RESD 51B | Respiratory Therapy Science | 4 |
| RESD 52 | Pulmonary Anatomy and Physiology | 3 |
| RESD 53 | Cardiopulmonary Pathophysiology | 3 |
| RESD 55 | Adult Respiratory Intensive Care | 3 |
| RESD 56A | Techniques of Respiratory Therapy | 2.5 |
| RESD 56B | Techniques of Respiratory Therapy | 6 |
| RESD 56C | Techniques of Respiratory Therapy | 2.5 |
| RESD 56D | Techniques of Respiratory Therapy | 6 |
| RESD 57B | Special Procedures for Respiratory Care | 1.5 |
| RESD 58 | Neonatal Intensive Care | 3 |
| RESD 59 | Respiratory Therapeutic Modalities | 3 |
| RESD 60 | Comprehensive Pulmonary Assessment | 2 |
| RESD 61 | Current Issues in Respiratory Care | 3 |
| RESD 62 | Pharmacology for Respiratory Care | 1.5 |
| Total Units | | 50 |

Respiratory Department website (http://www.mtsac.edu/respiratory)

Entrance Requirements

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. Applicants must be at least 18 years of age upon entrance into the program and must be a high school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
- 2. File a college application and be accepted as a student at Mt. San Antonio College.
- Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses.
 Note: Testing is administered by the Assessment Center located in the Student Services Center, Building 9B. You may contact them at (909) 274-7500, ext. 4265, to set up an appointment.

If you have taken English and math at another college, please provide college transcripts.

For students who possess a college degree, the college placement examination is not required. However, it will be necessary for the applicant to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to the Respiratory Therapy Program Office and the other to the Admission Office. If the degree was obtained at Mt.SAC, it is not necessary to request transcripts.

Transcripts should be addressed as follows: Mt. San Antonio College Health Careers Resource Center Respiratory Therapy Program 1100 North Grand Avenue Walnut CA 91789-1389 Submit an application for the Respiratory Therapy Program to the Health Careers Resource Center, Bldg. 67B, Room 250, (909) 274-4788.

All applications are dated upon receipt.

Foreign Transcripts

All coursework taken outside of the United States must be analyzed by a designated agency for foreign transcript evaluation. No foreign course work will be accepted without this evaluation. It is the sole responsibility of the applying student to get the evaluation completed before entry into the program. Information for transcript evaluation available in the Technology and Health Division.

A.S. Degree Requirements

All students entering the Respiratory Therapy Program **must** complete all the major course requirements and the general education requirements necessary to complete the Associate degree before a certificate documenting completion in Respiratory Therapy will be given. This certificate will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Other Requirements

RESD 50 pre-requisites ANAT 10A, ANAT 10B, CHEM 10, MATH 51 and MEDI 90 must be completed prior to entering the program.

All students will be required to complete a background check prior to entering the clinical education phase.

A physical examination, including specific immunizations, is required of all candidates prior to beginning classes.

These requirements are in accordance with healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing is required as part of this physical examination. All applicants are required to meet the Essential Functions for Success in the Respiratory Therapy Program.

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Posses the ability for extremely heavy effort (lift and carry at least 50 pounds or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devises)
- · Distance vision: ability to see clearly 20 feet or more
- · Depth perception: ability to judge distance and space relationship
- Near vision: ability to se clearly 20 inches or less
- · Hearing: able to recognize a full range of tones

Working Environment

May be exposed to infectious and contagious disease, without prior notification

- · Exposed to hazardous agents, body fluids and wastes
- · Exposed to odorous chemicals and specimens
- · Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- · Requires decisions/actions related to end of life issues
- · Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criterion for admission into the Respiratory Therapy Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Special Information

The completion of the Respiratory Therapy Program and receipt of a certificate documenting completion of required courses requires completion of the Associate degree. The student may elect to pursue either the Associate in Science or Associate in Arts degree.

All students entering the program must submit an educational plan showing the major course requirements for the degree.

To remain in the program, students must maintain a "C" or better grade in all courses.

Upon completion of the Respiratory Therapy requirements, the student is given a certificate documenting completion. This certification will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Readmission Policy

To remain in the program, students must maintain a "C" or better grade in all courses. Students who are dropped, failed, or withdrew from the program may request readmission for the following year in the semester in which they were stopped or may re-start the program. Students who re-start the program will be required to retake all Respiratory Therapy courses even if satisfactory grades were received. Re-entry may occur only one time.

The Respiratory Therapy program is accredited by the Committee on Accreditation for Respiratory Care (CoARC).

Contact:

Commission on Accreditation for Respiratory Care (CoARC) 1248 Hardwood Road Bedford, TX 76021-4244 (817) 283-2835 www.coarc.com/13.html (http://www.coarc.com/13.html) **Program Learning Outcomes**

Upon successful completion of this program, a student will be able to:

- · Achieve the CRT and RRT credential.
- Demonstrate in the laboratory and clinical setting, the correct procedures for basic Respiratory Therapy treatment modalities.
- Demonstrate in the laboratory and clinical setting, the correct procedures for advanced Respiratory Therapy procedures to include manual and mechanical ventilator.
- · Regularly exposed to the risk of blood borne diseases

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Sign Language/Interpreting, AS

Humanities and Social Sciences Division Degree S0801

The Mt. San Antonio College Interpreter Training Program is designed to prepare individuals for careers as Sign Language Interpreters. Interpreters are needed wherever communication happens between the hearing community and the Deaf and hard-of-hearing community. There are an endless number of settings in which this communication takes place. Interpreters are employed by school districts, cruiseship companies, corporations, government agencies, hospitals, colleges and universities, and a vast number of other organizations and private businesses.

Program Preparation: Preparation for the program includes fluency in American Sign Language demonstrated by the completion of SIGN 104, (or the equivalent skill) and English fluency demonstrated by the completion of ENGL 1A.

National Certification: There are many specialties within the field of Sign Language Interpreting, but the focus of this program is on preparing the interpreter generalist. Although requiring some type of certification is becoming more common in California, there are still many job opportunities for the precertified interpreter.

Completing the certificate in Sign Language/Interpreting does not make one a "Certified Interpreter"; however, graduates of this program are encouraged to apply for National Interpreting Certification (NIC) through the Registry of Interpreters for the Deaf (RID) at www.rid.org (http:// www.rid.org).

Students who complete the required courses listed below and who also complete the graduation requirements of Mt. San Antonio College will be awarded the Associate in Science degree in Sign Language/Interpreting.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|-------------------------|--|-------|
| Core Courses | | |
| SIGN 105 | American Sign Language 5 | 4 |
| SIGN 108 | Fingerspelling | 2 |
| SIGN 201 | Introduction to Deaf Studies | 3 |
| SIGN 202 | American Deaf Culture | 3 |
| SIGN 210 | American Sign Language Structure | 3 |
| SIGN 220 | Translation: American Sign Language And English | 4 |
| SIGN 223 | Principles of Interpreting | 3 |
| SIGN 225 | Ethical Decision Making for Interpreters | 2 |
| SIGN 227 | Cognitive Processing for Interpreters | 4 |
| SIGN 231 | Interpreting | 4 |
| SIGN 232 | Advanced Interpreting | 4 |
| SIGN 239 | Applied Interpreting | 2 |
| Required Electiv | es | |
| Choose three co | urses from the following: | 5-5.5 |
| SIGN 240 | Vocabulary Building for Interpreters | |
| SIGN 250 | Interpreting with Classifiers | |

| SIGN 260 | Video Interpreting | |
|-------------|--|---------|
| SIGN 299 | Special Projects in Sign Language/ Interpreting | |
| Total Units | | 43-43.5 |

Sign Language/Interpreting Department Website (http://www.mtsac.edu/ sign-language)

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- · Apply Demand Control Schema (DC-S) Theory to the field of Sign Language Interpreting.
- · Given an English narrative, successfully give a functional equivalent message in ASL in a simultaneous mode.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Small Business Management, AS

Business Division Degree S0508

This program is intended to prepare students for employment following graduation. Students wishing a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BUSA 7 | Principles of Accounting - Financial | 5 |
| BUSM 10 | Principles of Continuous Quality Improvement | 3 |
| BUSM 20 | Principles of Business | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| BUSM 61 | Business Organization and Management | 3 |
| BUSM 62 | Human Resource Management | 3 |
| BUSM 66 | Small Business Management | 3 |
| BUSS 36 | Principles of Marketing | 3 |
| CISB 15 | Microcomputer Applications | 3.5 |
| Total Units | | 29.5 |

Total Units

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-----------------------------|-------|
| BUSM 81 | Work Experience in Business | 1-4 |
| BUSM 85 | Special Issues in Business | 2 |
| BUSS 85 | Special Issues in Marketing | 2 |

The Small Business Management faculty recommends that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Small Business Management to help them determine which electives would best suit their career plans.

Business Management Website (http://www.mtsac.edu/management)

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Define and outline the key principles of continuous quality management.
- · Describe business planning for small business.
- · Develop a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Television Production, AS

Arts Division

Degree S0602

The Associate in Science degree in Television Production is designed to prepare students for entry-level jobs in the Television industry in a variety of areas including narrative, remote and studio production, writing, preproduction, editing, and finance.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------------------------|---|-------|
| Choose two cou | rses from the following: | 6 |
| R-TV 01 | Introduction to Electronic Media | |
| R-TV 14 | Media Aesthetics | |
| R-TV 28 | Introduction to Writing for Electronic Media | |
| Choose 12 units above courses n | from the following courses, or any of the ot taken: | 12 |
| PHOT 10 | Basic Digital and Film Photography | |
| R-TV 18 | Introduction to Screenwriting | |
| R-TV 19A | Beginning Video Production | |
| R-TV 19B | Advanced Video Production | |
| R-TV 20 | Television News Production | |
| R-TV 21 | Remote Multicamera Production | |
| R-TV 22 | Editing for Film and Television | |
| R-TV 23 | Reality Show Production | |
| R-TV 24 | American Film History | |
| R-TV 25 | World Cinema | |
| R-TV 100 | Work Experience in Film and TV | |
| Total Units | | 18 |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Feel that they have an increased possession of the skills required for entry-level work in the entertainment industry.
- Function in three types of production: Narrative (film-style), TV Studio, and live Remote Multicamera production in any role.
- Use communication, artistic and technical skills to collaboratively create programs as part of a team in any role, from writer to editor.
- Use Avid Media Composer to the level necessary for an editing internship.

- Present an ePortfolio containing video and written work to prospective employers, universities and scholarship committees.
- · Apply aesthetic and technical skills in telling a story visually.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Welding, AS

Technology and Health Division Degree S0919

This program is designed to prepare the student for employment in the broad field of welding. It leads to occupations in manufacturing and repair and helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certification. The college is a testing agency for the City of Los Angeles and is authorized to administer the performance test for the Structural Welding Certificate. There is a \$50 charge for students and \$60 for nonstudents to take this test. Topics of the written portion of the test which is administered by the city are reviewed in various welding courses offered by the college. This program is intended to prepare students for employment following graduation. Students desiring a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| WELD 40 | Introduction to Welding | 2 |
| WELD 50 | Oxyacetylene Welding | 2 |
| WELD 51 | Basic Electric Arc Welding | 2 |
| WELD 53A | Welding Metallurgy | 3 |
| WELD 70A | Beginning Arc Welding | 3 |
| WELD 70B | Intermediate Arc Welding | 3 |
| WELD 70C | Certification for Welders | 3 |
| WELD 80 | Construction Fabrication and Welding | 3 |
| Total Units | | 21 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BUSM 61 | Business Organization and Management | 3 |
| WELD 30 | Metal Sculpture | 2 |
| WELD 60 | Print Reading and Computations for Welders | 3 |
| WELD 81 | Pipe and Tube Welding | 3 |

Air Conditioning & Welding Website (http://www.mtsac.edu/ airconditioning-welding)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Be prepared to pass the Los Angeles City Structural Steel Exam.
- · Be employed or seeking employment in their area or a related area.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Associate in Arts Degrees (AA) with Emphases Liberal Arts and Sciences with area of emphasis in one of the following:

| Business173Communication173Environmental Studies174Fine Arts175Humanities176Information Technology177Kinesiology and Wellness178Language Arts179Mathematics180Music181Natural Sciences182Social & Behavioral Sciences183 | |
|--|--|
| Social & Behavioral Sciences | |
| | |

Business Emphasis, AA Liberal Arts and Sciences

Degree A8981

An emphasis in Business provides the student with an understanding of business and its role in society. Students will have knowledge of various business functions and economic analysis. Upon completion of this degree students will be prepared for an entry level job in the business world.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-----------|
| BUSC 1A | Principles of Economics - Macroeconomics | 3 |
| or BUSC 1AH | Principles of Economics - Macroeconomics - | Honors |
| BUSC 1B | Principles of Economics - Microeconomics | 3 |
| or BUSC 1BH | Principles of Economics - Microeconomics - | Honors |
| CISB 15 | Microcomputer Applications | 3.5 |
| or CISB 11 | Computer Information Systems | |
| | um of 3 courses from the following which ed in consultation with a counselor or sor: | 9-13 |
| BUSA 7 | Principles of Accounting - Financial | |
| BUSA 8 | Principles of Accounting - Managerial | |
| BUSC 17 | Applied Business Statistics | |
| BUSL 18 | Business Law | |
| or BUSL 18 | HBusiness Law - Honors | |
| BUSM 20 | Principles of Business | |
| BUSO 25 | Business Communications | |
| Total Units | | 18.5-22.5 |

Business Administration Website (http://www.mtsac.edu/ businessadministration)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Describe the basic accounting system and how it is used to serve business needs.
- List and explain the foundations upon which business is built and the economic challenges facing the United States.
- Compose an appropriate, effective letter presenting good news, bad news, sales, or persuasive content.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Communication Emphasis, AA Liberal Arts and Sciences

Degree A8982

An emphasis in Communication provides the student with an understanding of communication strategies, reasoning, logic, and critical analysis as it relates to human interaction within multiple cultural contexts. This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units _ |
|------------------|--|------------|
| Required Core | | 7 |
| SPCH 1A | Public Speaking (Required course) | |
| | Public Speaking - Honors | |
| or SPCH 2 | Fundamentals of Communication | |
| SPCH 26 | Interpersonal Communication | |
| | HInterpersonal Communication - Honors | |
| | its from the following: | 11 |
| SPCH 1A | Public Speaking | |
| | HPublic Speaking - Honors | |
| SPCH 2 | Fundamentals of Communication | |
| SPCH 3 | Voice and Diction | |
| SPCH 4 | Performance of Literature | |
| SPCH 6 | Group Communication | |
| SPCH 7 | Intercultural Communication | |
| or SPCH 7H | Intercultural Communication - Honors | |
| SPCH 8 | Professional and Organizational Speaking | |
| or SPCH 8H | Professional and Organizational Speaking - Hon | ors |
| SPCH 15 | Forensics: Fundamentals of Contest Speech and Debate | |
| SPCH 16 | Forensics: Individual Event Team | |
| SPCH 17 | Forensics: Debate Team | |
| SPCH 18 | Forensics: Reader's Theater Team | |
| SPCH 20 | Argumentation and Debate | |
| or SPCH 20 | Argumentation and Debate - Honors | |
| SPCH 30 | Gateway to Communication Studies | |
| SPCH 99 | Special Projects in Speech | |
| JOUR 100 | Introduction to Mass Media | |
| JOUR 101 | Beginning Newswriting | |
| JOUR 102 | Intermediate Newswriting | |
| JOUR 111 | Writing Broadcast and Web News | |
| PHOT 10 | Basic Digital and Film Photography | |
| R-TV 01 | Introduction to Electronic Media | |
| R-TV 11A | Beginning Radio Production | |
| R-TV 19A | Beginning Video Production | |
| R-TV 99 | Special Projects in Broadcasting and Entertainment Industry | |
| For Area of Emph | asis | |

Total Units

Communication Website (http://www.mtsac.edu/communications)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Perform basic speech delivery skills.
- · Critically analyze information and arguments.
- · Select and research an appropriate topic and thesis.
- Logically organize supporting materials into a well-crafted presentation.

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- Demonstrate effective verbal and non-verbal delivery skills to present a message to a live audience in a confident manner.
- Formulate communication solutions to problems in a range of contexts.
- · Create messages appropriate for diverse audiences and listener.
- Develop an improved understanding of themselves as communicators.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Environmental Studies Emphasis, AA Liberal Arts and Sciences

Humanities and Social Sciences Division Degree A0411

An emphasis in Environmental Studies is an interdisciplinary course of study that provides students with an integrated and critical understanding of the natural environment and human interactions with it. The coursework is designed to examine the interplay between natural and social systems and the ideological foundations of humanity's attitudes and behaviors in relation to its ever-changing environment. This program is designed to prepare students to research, analyze, and propose solutions to the myriad environmental challenges facing the world today through a well-rounded curriculum combining classroom, laboratory, and field study instruction. Students who are interested in an Environmental Science major are advised to follow the AA in Liberal Arts with an emphasis in natural sciences and to work with a counselor to select major courses appropriate to their intended transfer institution.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|--------------------|--|-------|
| Choose a combin | ation of any 3 courses | 9-11 |
| BIOL 6 | Humans and the Environment | |
| BIOL 6L | Humans and the Environment Laboratory | |
| GEOL 9 | Environmental Geology | |
| BUSC 1A | Principles of Economics - Macroeconomics | |
| or BUSC 1A | HPrinciples of Economics - Macroeconomics - Ho | nors |
| POLI 10 | Environmental Politics | |
| Scientific Inquiry | and Quantitative Reasoning | |
| Choose a minimu | m of three units from the following: | 3-5 |
| BIOL 1 | General Biology | |
| BIOL 3 | Ecology and Field Biology | |
| BIOL 4 | Biology for Majors | |
| or BIOL 4H | Biology for Majors - Honors | |
| BIOL 20 | Marine Biology | |
| BIOL 21 | Marine Biology Laboratory | |
| BIOL 25 | Conservation Biology | |
| BTNY 3 | Plant Structures, Functions, and Diversity | |
| CHEM 10 | Chemistry for Allied Health Majors | |
| CHEM 40 | Introduction to General Chemistry | |

| | CHEM 50 or CHEM 50 | General Chemistry I General Chemistry I - Honors | |
|----|-----------------------|--|---|
| | | | |
| | GEOG 1 or GEOG 1H | Physical Geography Physical Geography - Honors | |
| | GEOG 1L | Physical Geography Laboratory | |
| | or GEOG 1LH | Physical Geography Laboratory - Honors | |
| | GEOG 10 | Introduction to Geographic Information Systems | |
| | GEOL 1 | Physical Geology | |
| | GEOL 8 | Earth Science | |
| | | Earth Science - Honors | |
| | GEOL 8L | Earth Science Laboratory | |
| | MATH 110 | Elementary Statistics | |
| | | DElementary Statistics - Honors | |
| | MATH 140 | Calculus for Business | |
| | MATH 140 | Precalculus Mathematics | |
| | MATH 180 | | |
| | | Calculus and Analytic Geometry | |
| | METO 3 | Weather and the Atmospheric Environment | |
| | METO 3L | Weather and Atmospheric Environment Laboratory | |
| | BIOL 99A | Special Projects in Biology | |
| | OCEA 10 | Introduction to Oceanography | |
| | or OCEA 10H | Introduction to Oceanography - Honors | |
| | OCEA 10L | Introduction to Oceanography Laboratory | |
| | PHYS 1 | Physics | |
| | PHYS 2AG | General Physics | |
| | PHYS 4A | Engineering Physics | |
| | PHSC 3 | Energy Science | |
| | PHSC 9 | Physical Science | |
| | PSYC 10 | Statistics for the Behavioral Sciences | |
| Sc | cial Science | | |
| Cł | noose two of the | following options: | 6 |
| | ANTH 5 | Principles of Cultural Anthropology | |
| | BUSC 1B | Principles of Economics - Microeconomics | |
| | or BUSC 1BF | Principles of Economics - Microeconomics - Honors | |
| | GEOG 2 | Human Geography | |
| | or GEOG 2H | Human Geography - Honors | |
| | GEOG 5 | World Regional Geography | |
| | GEOG 30 | Geography of California | |
| | or GEOG 30F | Geography of California - Honors | |
| | PHIL 12 | Introduction to Ethics | |
| | | Introduction to Ethics - Honors | |
| | POLI 1 | Introduction to American Government and Politics | |
| | or POLI 1H | Introduction to American Government and Politics - Honors | |
| | SOC 2 | Contemporary Social Problems | |
| | or SOC 2H | Contemporary Social Problems - Honors | |
| Re | commended El | | |
| | GEOL 24 | Geologic Field Studies: Central California | |
| | GEOL 25 | Geologic Field Studies: Southern California | |
| | GEOL 29 | Special Topics in Field Geology | |
| | HIST 1 | History of the United States | |
| | | | |

| HIST 4 | World History: Early Modern to the Present | |
|-------------|--|-------|
| HIST 39 | California History | |
| Total Units | | 18-22 |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · Demonstrate critical thinking skills in relation to environmental issues
- Demonstrate an ability to integrate the many disciplines and fields that intersect with environmental concerns
- Demonstrate an awareness, knowledge, and appreciation of ecological processes and their relationship they have with human communities
- Demonstrate an ability to integrate environmental issues within the concept of sustainability

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Fine Arts Emphasis, AA Liberal Arts and Sciences

Degree A8983

An emphasis in Fine Arts provides the student with an understanding of the practices and theories of traditional and contemporary two and threedimensional studio arts and an introduction to the history of Western art. In addition to the foundation courses, students select 12 Units from the list of approved electives.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| ARTD 15A | Drawing: Beginning | 3 |
| ARTD 17A | Drawing: Life | 3 |
| ARTD 20 | Design: Two-Dimensional | 3 |
| ARTD 21 | Design: Color and Composition | 3 |
| ARTD 25A | Beginning Painting I | 3 |
| ARTS 22 | Design: Three-Dimensional | 3 |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | 3 |
| or AHIS 4H | History of Western Art: Prehistoric Through Goth Honors | nic - |
| AHIS 5 | History of Western Art: Renaissance Through Modern | 3 |
| or AHIS 5H | History of Western Art: Renaissance Through Me - Honors | odern |
| Choose twelve u | nits from one of the following art categories: | 12 |
| Ceramics | | |
| ARTS 30A | Ceramics: Beginning I | |
| ARTS 30B | Ceramics: Beginning II | |
| ARTS 31 | Ceramics: Advanced Studio | |
| ARTS 33 | Ceramics: Hand Construction | |
| ARTS 34 | The Sculptural Vessel | |
| Sculpture | | |
| ARTS 40A | Sculpture: Beginning | |

| ARTS 40B | Sculpture: Intermediate |
|--------------|-------------------------------------|
| ARTS 40C | Sculpture: Carving |
| ARTS 41A | Sculpture: Life |
| ARTS 41B | Sculpture: Intermediate Life |
| ARTS 42 | Sculpture: Mold Making |
| ARTS 46A | Sculpture: Special Effects Makeup |
| ARTS 46B | Sculpture: Special Effects Makeup |
| Drawing | |
| ANIM 101A | Drawing - Gesture and Figure |
| ARTD 16 | Drawing: Perspective |
| ARTD 17B | Drawing: Life-Advanced |
| ARTD 23A | Drawing: Heads and Hands |
| ARTD 23B | Drawing: Advanced Heads and Hands |
| ARTD 23C | Drawing: Expressive Heads and Hands |
| ANIM 101C | Figure Gesture Expressive Design |
| ANIM 107 | Figure in Motion |
| ANIM 111A | Animal Drawing |
| ANIM 111B | Animal Drawing |
| ARTD 15B | Drawing: Intermediate |
| ANIM 101B | Figure Gesture - Design |
| Illustration | |
| ARTC 100 | Graphic Design I |
| ARTC 163 | Dynamic Sketching |
| ARTC 165 | Illustration |
| ARTC 167 | Visual Development |
| or ANIM 167 | ' Visual Development |
| ARTC 169 | Contemporary Illustration |
| ARTC 290 | Portfolio |
| ARTD 19A | Figure Painting |
| Figure | 5 5 |
| ANIM 101A | Drawing - Gesture and Figure |
| ANIM 101B | Figure Gesture - Design |
| ANIM 101C | Figure Gesture Expressive Design |
| ANIM 107 | Figure in Motion |
| ANIM 111A | Animal Drawing |
| ANIM 111B | Animal Drawing |
| ARTD 17B | Drawing: Life-Advanced |
| ARTD 19A | Figure Painting |
| ARTD 23A | Drawing: Heads and Hands |
| ARTD 23B | Drawing: Advanced Heads and Hands |
| ARTD 23C | Drawing: Expressive Heads and Hands |
| ARTS 41A | Sculpture: Life |
| ARTS 41B | Sculpture: Intermediate Life |
| Painting | , |
| ARTD 19A | Figure Painting |
| ARTD 25B | Beginning Painting II |
| ARTD 26A | Intermediate Painting I |
| ARTD 26B | Intermediate Painting I |
| ARTD 20B | Painting: Watercolor |
| Printmaking | |
| | |
| ARTD 43A | Introduction to Printmaking |

| ARTD 43B | Intermediate Printmaking in Intaglio and Relief | |
|-------------------|--|----|
| ARTD 44A | Printmaking: Introduction to Lithography I | |
| ARTD 45A | Printmaking: Introduction to Screenprinting | |
| ARTD 45B | Printmaking: Intermediate Screenprinting | |
| ARTD 46A | Printmaking: Introduction to Monotype | |
| ARTD 47A | Printmaking: Photo and Alternative Processes | |
| ARTD 48A | Letterpress Book Arts | |
| Gallery | | |
| ARTC 100 | Graphic Design I | |
| ARTG 20 | Art, Artists and Society | |
| ARTG 21A | Introduction to Exhibition Production | |
| ARTG 21B | Intermediate Exhibition Production | |
| Photography | | |
| PHOT 10 | Basic Digital and Film Photography | |
| PHOT 12 | Photographic Alternatives | |
| PHOT 20 | Color Photography | |
| And one of the fo | llowings: | |
| PHOT 9 | Digital Image Editing for Photographers | |
| PHOT 17 | Photocommunication | |
| ARTC 100 | Graphic Design I | |
| Graphic Design | | |
| ARTC 100 | Graphic Design I | |
| ARTC 120 | Graphic Design II | |
| ARTC 140 | Graphic Design III | |
| ARTC 160 | Typography | |
| ARTC 200 | Web Design | |
| ARTC 220 | Graphic Design IV | |
| Total Units | | 36 |
| | | |

(http://www.mtsac.edu/instruction)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- · Have completed the foundation courses of the major which are the aesthetic base needed for transfer into bachelors programs or independent work as an artist.
- · Be able to apply critical thinking skills to original work.
- · Be able to apply the elements and principles of design to original art work.
- · Be able to apply visual arts concepts that are basic to many forms and fields of art and design in visual, oral, and written communication
- Be able to analyze historical, contemporary, peer, and personal visual artwork that range in modes of artistic expression.
- · Be able to demonstrate in oral, written and studio work familiarity with the history of western art.
- · Be proficient in a variety of visual art techniques and tools using them to explore a range of subjects, media, styles and formats.
- · Create independent original work in the area of their focus demonstrating basic professional practices.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Humanities Emphasis, AA Liberal **Arts and Sciences**

Degree A8984

An emphasis in Humanities provides the student with an understanding of the interrelationship between art, religion, history, music, literature and the dramatic arts, and philosophical and political thought. This emphasis also strengthens the understanding of other cultures through the study of a foreign language.

This degree requires the completion of General Education coursework plus the following:

Students must select a total of 18 to 20 units choosing courses from at least 5 of the following 7 categories:

| Course Prefix | Course Name | Units | |
|---|--|-------|--|
| Select a total of 18 to 20 units choosing courses from at least 18-2 5 of the 7 categories: | | | |
| Music | | | |
| MUS 11A | Music Literature Survey | | |
| MUS 11B | Music Literature Survey | | |
| MUS 12 | History of Jazz | | |
| MUS 13 | Introduction to Music Appreciation | | |
| or MUS 13H | Introduction to Music Appreciation - Honors | | |
| MUS 14A | World Music | | |
| MUS 14B | American Folk Music | | |
| MUS 15 | Rock Music History and Appreciation | | |
| Art History | | | |
| AHIS 3 | History of Women and Gender in Art | | |
| or AHIS 3H | History of Women and Gender in Art - Honors | | |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | | |
| or AHIS 4H | History of Western Art: Prehistoric Through Goth Honors | ic - | |
| AHIS 5 | History of Western Art: Renaissance Through Modern | | |
| or AHIS 5H | History of Western Art: Renaissance Through Mo - Honors | odern | |
| AHIS 6 | History of Modern Art | | |
| or AHIS 6H | History of Modern Art - Honors | | |
| AHIS 9 | History of Asian Art and Architecture | | |
| AHIS 10 | A History of Greek and Roman Art and Architecture | | |
| AHIS 11 | History of African, Oceanic, and Native American Art | | |
| AHIS 12 | History of Precolumbian Art and Architecture | | |
| or AHIS 12F | History of Precolumbian Art and Architecture - H | onors | |
| ARCH 250 | World Architecture I | | |
| or ARCH 25 | 1 World Architecture II | | |
| Philosophy and P | Political Sciences | | |
| PHIL 12 | Introduction to Ethics | | |
| or PHIL 12H | I Introduction to Ethics - Honors | | |
| PHIL 20A | History of Ancient Philosophy | | |
| | | | |

| | History of Ancient Philosophy - Honors |
|--|--|
| PHIL 20B | History of Modern Philosophy |
| | History of Modern Philosophy - Honors |
| POLI 5 | Political Theory I - Ancient to Contemporary |
| POLI 9 | Introduction to International Relations |
| nglish and Dram | atic Arts Literature |
| FRCH 60 | French Culture Through Cinema |
| ITAL 60 | Italian Culture Through Cinema |
| LIT 10 | Survey of Shakespeare |
| LIT 11A | World Literature to 1650 |
| LIT 11B | World Literature from 1650 |
| LIT 15 | Introduction to Cinema |
| SPCH 4 | Performance of Literature |
| THTR 10 | History of Theater Arts |
| eligion and Liter | ature |
| LIT 36 | Introduction to Mythology |
| LIT 46 | The Bible As Literature: Old Testament |
| LIT 47 | The Bible As Literature: New Testament |
| PHIL 15 | Major World Religions |
| or PHIL 15H | Major World Religions - Honors |
| listory | |
| HIST 3 | World History: Prehistoric to Early Modern |
| or HIST 3H | World History: Prehistoric to Early Modern - Honors |
| HIST 4 | World History: Early Modern to the Present |
| or HIST 4H | World History: Early Modern to the Present - Honors |
| HIST 10 | History of Premodern Asia |
| HIST 11 | History of Modern Asia |
| HIST 16 | The Wild West - A History, 1800-1890 |
| HIST 19 | History of Mexico |
| HIST 35 | History of Africa |
| HIST 44 | History of Native Americans |
| oreign Language | 25 |
| ARAB 2 | Continuing Elementary Arabic |
| CHIN 2 | Continuing Elementary Chinese |
| CHIN 3 | Intermediate Chinese |
| FRCH 2 | Continuing Elementary French |
| FRCH 3 | Intermediate French |
| | Continuing Elementary German |
| GERM 2 | Continuing Elementary Cerman |
| GERM 2 GERM 3 | Intermediate German |
| | |
| GERM 3 | Intermediate German |
| GERM 3 ITAL 2 | Intermediate German Continuing Elementary Italian |
| GERM 3 ITAL 2 ITAL 3 | Intermediate German Continuing Elementary Italian Intermediate Italian |
| GERM 3 ITAL 2 ITAL 3 JAPN 2 | Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese |
| GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 | Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese |
| GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 | Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish |
| GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3 | Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish |
| GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3 SPAN 11 | Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish Intermediate Spanish |
| GERM 3 ITAL 2 ITAL 3 JAPN 2 JAPN 3 SPAN 2 SPAN 3 SPAN 11 SPAN 12 | Intermediate German Continuing Elementary Italian Intermediate Italian Continuing Elementary Japanese Intermediate Japanese Continuing Elementary Spanish |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- identify the influence and interrelationship of culture on human and artistic expression
- demonstrate an understanding of other cultures, including through the study of foreign language, the arts, and humanistic thought
- analyze modes of artistic expression (visual arts, music and literature)
- demonstrate knowledge of philosophy and politics and the natural environment, including the relationship between social, political, and/ or economic institutions and human behavior

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Information Technology Emphasis, AA Liberal Arts and Sciences

Degree A8985

The A.A. Degree in Liberal Arts and Sciences with an emphasis in Information Technology is designed to prepare students for a career in Information Technology. The degree offers a balanced set of classes that enables students to maintain and secure a computer, create and modify computer applications and databases, create customized reports, and use productivity software to solve business problems. Emphasis is place on developing object-oriented, business-related applications, creating and maintaining a database, and utilizing operating system utilities to optimize, maintain and secure a computer. Career opportunities available after the completion of this degree include technical support and systems analyst. Students wishing a bachelor's degree (transfer program) should meet with a counselor or advisor to discuss transferability of course.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units | | |
|-------------------------------|--|-------|--|--|
| Information Technology Basics | | | | |
| CISB 11 | Computer Information Systems | 3.5 | | |
| CISB 15 | Microcomputer Applications | 3.5 | | |
| Software Develop | ment | | | |
| Choose one of the | e following sequences: | 3.5 | | |
| CISP 11 & 11L | Programming in Visual Basic and Programming in Visual Basic Laboratory | | | |
| CISP 21 & 21L | Programming in Java and Programming in Java Laboratory | | | |
| CISP 31 & 31L | Programming in C++ and Programming in C++ Laboratory | | | |
| CISP 41 & 41L | Programming in C# and Programming in C# Laboratory | | | |
| CISW 21 & 21L | Secure Web Programming with ASP.NET and Secure Web Programming with ASP.NET Laboratory | | | |
| CISP 52 & 52L | Mobile Device Programming and Mobile Device Programming Laboratory | | | |

| CISW 24 & 24L | Secure Server Side Web Programming and Secure Server Side Web Programming Laboratory | | | |
|--|---|-------------------------------------|--|--|
| Database Techno | Database Technology | | | |
| Choose one of the following sequences: | | | | |
| CISD 11 & 11L | Database Management - Microsoft Access and Database Management - Microsoft Access Laboratory | | | |
| CISD 21 & 21L | Database Management - Microsoft SQL Server and Database Management - Microsoft SQL Server Laboratory | | | |
| CISD 31 & 31L | Database Management - Oracle and Database Management - Oracle Laboratory | | | |
| Operating System | ns and Networking | | | |
| Choose one of th | e following options: | 3-3.5 | | |
| CISN 11 & 11L | Telecommunications Networking and Telecommunications/Networking Laboratory | | | |
| CISN 21 | Windows Operating System | | | |
| CISN 31 & 31L | Linux Operating System and Linux Operating System Laboratory | | | |
| CISN 61 | Virtualization Technology | | | |
| Security | | | | |
| Choose one of th | e following options: | 3-4 | | |
| CISS 13 | Principles of Information Systems Security | | | |
| CISS 15 | Operating Systems Security | | | |
| CISS 21 & 21L | Network Vulnerabilities and Countermeasures and Network Vulnerabilities and Countermeasures Laboratory | | | |
| Total Units | , | 20-21.5 | | |
| Recommended Electives | | | | |
| Course Prefix | Course Name | Units | | |
| BUSA 7 | Principles of Accounting - Financial | 5 | | |
| BUSM 20 | | | | |
| DUCMED | Principles of Business | 3 | | |
| BUSM 60 | Principles of Business Human Relations in Business | 3 3 | | |
| BUSO 25 | • | | | |
| | Human Relations in Business | 3 | | |
| BUSO 25 | Human Relations in Business Business Communications | 3 3 | | |
| BUSO 25 BUSS 36 CISB 31 CISB 51 | Human Relations in Business Business Communications Principles of Marketing Microsoft Word Microsoft PowerPoint | 3 3 3 3 3 | | |
| BUSO 25 BUSS 36 CISB 31 CISB 51 CISM 11 | Human Relations in Business Business Communications Principles of Marketing Microsoft Word Microsoft PowerPoint Systems Analysis and Design | 3 3 3 3 3 3 3.5 | | |
| BUSO 25 BUSS 36 CISB 31 CISB 51 CISM 11 R-TV 17 | Human Relations in Business Business Communications Principles of Marketing Microsoft Word Microsoft PowerPoint Systems Analysis and Design Internet Radio and Podcasting | 3 3 3 3 3 3.5 3.5 | | |
| BUSO 25 BUSS 36 CISB 31 CISB 51 CISM 11 | Human Relations in Business Business Communications Principles of Marketing Microsoft Word Microsoft PowerPoint Systems Analysis and Design | 3 3 3 3 3 3 3.5 | | |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Know the four primary operations of a computer and the hardware that performs these operations.
- Be able to create effective queries that answer needed questions.
- Be able to identify four types of common transmission media and be able to describe the basic characteristics of each.

- Be able to use decision making statements and loops in order to create a business application.
- · Be able to understand the "need for security.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Kinesiology and Wellness Emphasis, AA Liberal Arts and Sciences

Degree A8986

An emphasis in Kinesiology and Wellness provides the student with an understanding of kinesiology, health promotion, and the mechanics of human bodily movement. In addition to the foundational physical education and movement courses, students select courses from a scientific and nutrition and behavioral development and diversity cluster.

This degree requires the completion of General Education coursework plus the following:

| C | ourse Prefix | Course Name | Units | |
|----|--|--|-------|--|
| C | Cluster 1: Kinesiology, Movement, and Health Promotion | | | |
| Cl | Choose six to eight units from the following: 6-8 | | | |
| | DN-T 18 | Introduction to Dance | | |
| | DN-T 20 | History and Appreciation of Dance | | |
| | KIN 3 | First Aid and CPR | | |
| | or KIN 5 | Advanced First Aid/CPR/Emergency Response | | |
| | KIN 13 | Sports Officiating | | |
| | KIN 19 | Introduction to Care/Prevention of Activity/ Sports -Related Injuries | | |
| | KIN 34 | Fitness for Living | | |
| | KIN 39 | Techniques of Fitness Testing | | |
| | KIN 44 | Theory of Coaching | | |
| | KIN 17 | Introduction to Kinesiology | | |
| Cl | uster 2: Scientif | fic and Nutrition Background | | |
| Cl | noose a minimu | m of three to five units from the following: | 3-5 | |
| | ANAT 10A | Introductory Human Anatomy | | |
| | or ANAT 35 | Human Anatomy | | |
| | ANAT 10B | Introductory Human Physiology | | |
| | or ANAT 36 | Human Physiology | | |
| | ANAT 35 | Human Anatomy | | |
| | ANAT 36 | Human Physiology | | |
| | BIOL 1 | General Biology | | |
| | BIOL 4 | Biology for Majors | | |
| | or BIOL 4H | Biology for Majors - Honors | | |
| | BIOL 5 | Contemporary Health Issues | | |
| | BIOL 13 | Human Reproduction, Development and Aging | | |
| | CHEM 10 | Chemistry for Allied Health Majors | | |
| | CHEM 40 | Introduction to General Chemistry | | |
| | CHEM 50 | General Chemistry I | | |
| | or CHEM 50 | General Chemistry I - Honors | | |
| | MICR 1 | Principles of Microbiology | | |
| | MICR 22 | Microbiology | | |
| | | | | |

| NF 10 | Nutrition for Health and Wellness | |
|--------------------|--|-----|
| or NF 12 | Sports Nutrition | |
| NF 25 | Introduction to Nutrition Science | |
| or NF 25H | Introduction to Nutrition Science - Honors | |
| PHYS 1 | Physics | |
| PHYS 2AG | General Physics | |
| PSYC 1B | Biological Psychology | |
| Cluster 3: Behavio | oral Development and Diversity | |
| Choose a minimu | m of three to four units from the following: | 3-4 |
| ANTH 5 | Principles of Cultural Anthropology | |
| ANTH 22 | General Cultural Anthropology | |
| CHLD 1 | Child, Family, School and Community | |
| CHLD 10 | Child Growth and Lifespan Development | |
| or CHLD 10 | HChild Growth and Lifespan Development- Honors | |
| CHLD 11 | Child and Adolescent Development | |
| COUN 2 | College Success Strategies | |
| COUN 5 | Career and Life Planning | |
| PSYC 1A | Introduction to Psychology | |
| or PSYC 1AI | HIntroduction to Psychology - Honors | |
| PSYC 3 | Introduction to Research Methods in | |
| | Psychology | |
| PSYC 14 | Developmental Psychology | |
| PSYC 15 | Introduction to Child Psychology | |
| PSYC 17 | Introduction to Human Services | |
| PSYC 26 | Psychology of Sexuality | |
| PSYC 33 | Psychology for Effective Living | |
| SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| SOC 2 | Contemporary Social Problems | |
| or SOC 2H | Contemporary Social Problems - Honors | |
| SOC 15 | Child Development | |
| SOC 20 | Sociology of Ethnic Relations | |
| or SOC 20H | Sociology of Ethnic Relations - Honors | |
| Activity Courses | | |
| Choose a minimu | m of two courses from the following: | 1 |
| DNCE 1 | Ballet Fundamentals | |
| DNCE 10 | Modern Fundamentals | |
| DNCE 17 | Jazz Fundamentals | |
| DNCE 28 | Theater Dance I | |
| DNCE 41 | Pilates I | |
| KINA 8A | Swimming - Beginning | |
| KINF 10A | Weight Training - Beginning | |
| KINF 34A | Cardiorespiratory Training Beginning | |
| KINF 36A | Circuit Training Beginning | |
| KINF 38A | Aerobics-Beginning | |
| KINI 4A | Badminton - Beginning | |
| KINI 18A | Golf - Beginning | |
| KINI 29 | Self Defense and Martial Arts | |
| KINI 33A | Kickboxing Beginning | |
| KINI 50A | Yoqa | |
| KINS 2A | Basketball Beginning | |
| KINS 10A | Beginning Soccer | |
| KING TUA | Degining oboot | |

| KINS | 24A | Volleyball - Beginning | |
|--|-----|---|-------|
| KINX | 88 | Pre-Season Athletics | |
| KINX | 99 | Off-Season Athletics | |
| KINL | 2 | Physical Fitness for the Physically Limited | |
| KINL | 18 | Weight Training for the Physically Limited | |
| Must complete at least 18 units. Remaining units must be0-5taken from clusters 1 - 3 if not already taken. | | | 0-5 |
| For Area of Emphasis | | | |
| Total Un | its | | 13-23 |

Kinesiology, Athletics, and Dance Website (http://www.mtsac.edu/kinesiology)

Program Learning Objectives

Upon successful completion of this program, a student will:

- Have an understanding of kinesiology, health promotion, and the mechanics of human bodily movement.
- Have an understanding of Anatomy, Nutrition as well as Behavior Development as it applies to Kinesiology.
- · Be able to demonstrate competence in several activities.
- Be provided with an opportunity to prepare for transfer or a career in the field of human movement and wellness.
- Be able to examine personal health-related behavioral patterns, select goals and formulate appropriate health and fitness strategies.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Language Arts Emphasis, AA Liberal Arts and Sciences

Degree A8987

An emphasis in Language Arts provides the student with an understanding of the acquisition of language with a focus on reading, writing, listening, and speaking with a diverse environment. In addition to the foundational language acquisition courses, students select personal options that will strengthen their individual interest and goals within Language Arts.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix Language Acquisi | Course Name tion | Units |
|-----------------------------------|---|-------|
| Choose a minimu | m of nine units from the following: | 9 |
| CHLD 51 | Early Literacy in Child Development | |
| ENGL 1C | Critical Thinking and Writing | |
| or ENGL 1CH | Critical Thinking and Writing - Honors | |
| or PHIL 9 | Critical Thinking and Writing | |
| ENGL 81 | Language Acquisition | |
| READ 100 | Analysis and Critical Reading | |
| SIGN 210 | American Sign Language Structure | |
| STDY 100 | University-level Academic Success Strategies | |

Language Arts Diversity

| C | Choose a minimu | Im of six units from the following: | 6 |
|---|-----------------|--|---|
| | SPAN 1 | Elementary Spanish | |
| | SPAN 2 | Continuing Elementary Spanish | |
| | SPAN 3 | Intermediate Spanish | |
| | SPAN 4 | Continuing Intermediate Spanish | |
| | SPAN 1S | Spanish for the Spanish Speaking | |
| | SPAN 2S | Continuing Spanish for the Spanish Speaking | |
| | SPAN 53 | Conversational Spanish | |
| | SPAN 54 | Continuing Conversational Spanish | |
| | FRCH 1 | Elementary French | |
| | FRCH 2 | Continuing Elementary French | |
| | FRCH 3 | Intermediate French | |
| | FRCH 4 | Continuing Intermediate French | |
| | FRCH 53 | Intermediate Conversational French | |
| | FRCH 54 | Continuing Intermediate Conversational French | |
| | ITAL 1 | Elementary Italian | |
| | ITAL 2 | Continuing Elementary Italian | |
| | ITAL 3 | Intermediate Italian | |
| | ITAL 4 | Continuing Intermediate Italian | |
| | ITAL 52 | Conversational Italian | |
| | ITAL 53 | Continuing Conversational Italian | |
| | ITAL 54 | Advanced Conversational Italian | |
| | GERM 1 | Elementary German | |
| | GERM 2 | Continuing Elementary German | |
| | GERM 3 | Intermediate German | |
| | CHIN 1 | Elementary Chinese | |
| | CHIN 2 | Continuing Elementary Chinese | |
| | CHIN 3 | Intermediate Chinese | |
| | CHIN 4 | Continuing Intermediate Chinese | |
| | JAPN 1 | Elementary Japanese | |
| | JAPN 2 | Continuing Elementary Japanese | |
| | JAPN 3 | Intermediate Japanese | |
| | JAPN 4 | Continuing Intermediate Japanese | |
| | JAPN 5 | Advanced Japanese | |
| | LATN 1 | Elementary Latin | |
| | LATN 2 | Continuing Elementary Latin | |
| | ARAB 1 | Elementary Arabic | |
| | ARAB 2 | Continuing Elementary Arabic | |
| | SIGN 101 | American Sign Language 1 | |
| | SIGN 102 | American Sign Language 2 | |
| | SIGN 103 | American Sign Language 3 | |
| | SIGN 104 | American Sign Language 4 | |
| | SIGN 105 | American Sign Language 5 | |
| | LIT 3 | Multicultural American Literature | |
| | LIT 11A | World Literature to 1650 | |
| | or LIT 11B | World Literature from 1650 | |
| | LIT 20 | African American Literature | |
| | LIT 25 | Contemporary Mexican American Literature | |
| | CHLD 50 | Teaching in a Diverse Society | |
| | JOUR 100 | Introduction to Mass Media | |
| | | | |

| | JOUR 107 | Race, Culture, Sex, and Mass Media Images | |
|-----|----------------|--|---|
| | R-TV 01 | Introduction to Electronic Media | |
| Pe | rsonal Options | | |
| Ch | oose a minimu | m of three units from the following: | 3 |
| | BUSO 25 | Business Communications | |
| | CHLD 61 | Language Arts and Art Media for Young Children | |
| | ENGL 1B | English - Introduction to Literary Types | |
| | or ENGL 1BH | HEnglish - Introduction to Literary Types - Honors | |
| | ENGL 8A | Creative Writing - Fiction | |
| | ENGL 8B | Creative Writing - Poetry | |
| | ENGL 8E | Creative Writing - Memoir | |
| | ENGL 8F | Creative Writing - Nonfiction | |
| | JOUR 101 | Beginning Newswriting | |
| | or JOUR 102 | Intermediate Newswriting | |
| | JOUR 108 | Introduction to Public Relations | |
| | LIT 1 | Early American Literature | |
| | or LIT 2 | Modern American Literature | |
| | LIT 6A | Survey of English Literature | |
| | or LIT 6B | Survey of English Literature | |
| | LIT 40 | Children's Literature | |
| | R-TV 05 | Radio-TV Newswriting | |
| | SPCH 4 | Performance of Literature | |
| For | Area of Empha | asis | |
| Tot | Total Units | | |

Language Arts Website (http://www.mtsac.edu/languages)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

· demonstrate language acquisition and usage through reading, writing, listening, signing or speaking within a diverse environment

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Mathematics Emphasis, AA Liberal Arts and Sciences

Degree A8989

An emphasis in Mathematics provides the student with an understanding of college level mathematics. In addition to the foundational calculus courses, students may select from computer science programming options.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix | Course Name | Units | |
|--|-------------------------|-------|--|
| Choose a minimum of 18 units from the following with at most two CSCI courses: | | | |
| MATH 130 | College Algebra | | |
| MATH 140 | Calculus for Business | | |
| MATH 150 | Trigonometry | | |
| MATH 160 | Precalculus Mathematics | | |

| MATH 180 | Calculus and Analytic Geometry |
|----------|--|
| MATH 181 | Calculus and Analytic Geometry |
| MATH 245 | A Transition to Advanced Mathematics |
| MATH 280 | Calculus and Analytic Geometry |
| MATH 285 | Linear Algebra and Differential Equations |
| CSCI 110 | Fundamentals of Computer Science |
| CSCI 140 | C++ Language and Object Development |
| CSCI 145 | Java Language and Object Oriented Programming |
| | |

For Area of Emphasis

Total Units

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| MATH 100 | Survey of College Mathematics | 3 |
| MATH 110 | Elementary Statistics | 3 |
| or MATH 110H | Elementary Statistics - Honors | |
| MATH 120 | Finite Mathematics | 3 |
| CHEM 50 | General Chemistry I | 5 |
| or CHEM 50H | General Chemistry I - Honors | |
| CHEM 51 | General Chemistry II | 5 |
| PHYS 4A | Engineering Physics | 5 |
| PHYS 4B | Engineering Physics | 5 |
| PHYS 4C | Engineering Physics | 5 |

Math and Computer Science Website (http://www.mtsac.edu/math)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate critical thinking skills in solving an application problem in the math and computer science courses that the student takes.
- Analyze success rates for the math courses that are assigned to the AA Degree.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Music Emphasis, AA Liberal Arts and Sciences

Degree A8990

An emphasis in Music provides the student with an understanding of music theory, harmony and the history of western music. In addition to the foundational Music courses, students select courses in piano and a performance ensemble.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| Core Courses | | |
| MUS 2 | Music Theory | 3 |
| MUS 3A | Harmony - Diatonic | 3 |
| MUS 5A | Musicianship - Ear Training and Sight Singing | 1 |

| | MUS 5B | Musicianship - Diatonic | 1 |
|--|-------------------|-------------------------|-------|
| | MUS 11A | Music Literature Survey | 3 |
| | MUS 16 | Individual Instruction | 0.5 |
| | MUS 22 | Conducting | 1.5 |
| | Piano | | |
| | Choose two units | from the following: | 2 |
| | MUS 17A | Elementary Piano | |
| | MUS 17B | Intermediate Piano | |
| | MUS 18 | Advanced Piano | |
| | Performance Ens | emble | |
| | Choose 3 to 5 uni | ts from the following: | 3-5 |
| | MUS 27 | Chamber Music | |
| | MUS 30 | Collegiate Chorale | |
| | MUS 31 | Concert Choir | |
| | MUS 34 | Women's Vocal Ensemble | |
| | MUS 36 | Wind Symphony | |
| | MUS 38 | Ensemble | |
| | MUS 39 | Laboratory Band | |
| | MUS 44 | Vocal Jazz Ensemble | |
| | MUS 45 | Chamber Singers | |
| | MUS 47 | Jazz Ensemble | |
| | MUS 48 | Men's Vocal Ensemble | |
| | MUS 49 | Wind Ensemble | |
| | For Area of Emph | asis | |
| | Total Units | | 18-20 |
| | | | |

Strongly Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|----------------------------------|-------|
| MUS 11B | Music Literature Survey | 3 |
| MUS 16 | Individual Instruction | 0.5 |
| MUS 9 | Introduction to Music Technology | 3 |

Music Department Website (http://mtsac.edu/music)

Program Learning Outcomes

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Upon successful completion of this course, a student will:

- Demonstrate proficiency in the rehearsal, collaboration and performance of music across a wide range of compositional styles and in a variety of venues.
- Demonstrate proficiency in the analysis and composition of tonal music.
- Demonstrate proficiency in the dictation and sight singing of tonal music.
- Demonstrate proficiency in sight reading, transposition and improvisation at the keyboard.
- Comprehend and communicate in writing the cultural and historical contexts of music, as well as stylistic differences, in the Western classical traditions.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Natural Sciences Emphasis, AA Liberal Arts and Sciences

Degree A8988

An emphasis in Natural Sciences provides the student with an understanding of living and non-living systems and promotes an appreciation of the methodologies and tools of science. Students may select courses that focus on a specific major and then select complementary courses to strengthen their selected focus or they may select courses that strengthen and broaden their overall understanding of the Natural Sciences.

This degree requires the completion of General Education coursework plus the following:

Required Courses

| Course Prefix | Course Name | Units |
|--------------------|--|-------|
| Choose a minimu | m of 18 units from the following with at | 18 |
| least one GE lab f | rom each group: | |
| Group 1: Physical | Sciences | |
| ASTR 5 | Introduction to Astronomy | |
| or ASTR 5H | Introduction to Astronomy - Honors | |
| ASTR 7 | Geology of the Solar System | |
| ASTR 8 | Introduction to Stars, Galaxies, and the Universe | |
| CHEM 80 | Organic Chemistry | |
| CHEM 81 | Organic Chemistry II | |
| GEOG 1 | Physical Geography | |
| or GEOG 1H | Physical Geography - Honors | |
| GEOL 7 | Geology of California | |
| GEOL 8 | Earth Science | |
| or GEOL 8H | Earth Science - Honors | |
| GEOL 9 | Environmental Geology | |
| GEOL 10 | Natural Disasters | |
| GEOL 24 | Geologic Field Studies: Central California | |
| or GEOL 25 | Geologic Field Studies: Southern California | |
| METO 3 | Weather and the Atmospheric Environment | |
| OCEA 10 | Introduction to Oceanography | |
| or OCEA 10H | Introduction to Oceanography - Honors | |
| Group 1: Physical | Sciences GE Labs | |
| Choose at least of | ne from the following: | |
| ASTR 5L | Astronomical Observing Laboratory | |
| CHEM 50 | General Chemistry I | |
| or CHEM 50 | HGeneral Chemistry I - Honors | |
| CHEM 51 | General Chemistry II | |
| GEOG 1L | Physical Geography Laboratory | |
| or GEOG 1L | HPhysical Geography Laboratory - Honors | |
| GEOL 1 | Physical Geology | |
| GEOL 8L | Earth Science Laboratory | |
| METO 3L | Weather and Atmospheric Environment Laboratory | |
| OCEA 10L | Introduction to Oceanography Laboratory | |
| PHSC 3 | Energy Science | |
| PHYS 1 | Physics | |

| PHYS 2AG | General Physics | |
|--------------------|--|----|
| PHYS 2BG | General Physics | |
| PHYS 4A | Engineering Physics | |
| PHYS 4B | Engineering Physics | |
| PHYS 4C | Engineering Physics | |
| Group 2: Life Scie | nces | |
| ANTH 1 | Biological Anthropology | |
| or ANTH 1H | Biological Anthropology - Honors | |
| BIOL 6 | Humans and the Environment | |
| BIOL 17 | Neurobiology and Behavior | |
| BIOL 20 | Marine Biology | |
| BIOL 25 | Conservation Biology | |
| BIOL 34 | Fundamentals of Genetics | |
| BTNY 3 | Plant Structures, Functions, and Diversity | |
| roup 2: Life Scie | nces GE Labs | |
| hoose at least o | ne from the following: | |
| ANTH 1L | Biological Anthropology Laboratory | |
| BIOL 1 | General Biology | |
| BIOL 2 | Plant and Animal Biology | |
| BIOL 3 | Ecology and Field Biology | |
| BIOL 4 | Biology for Majors | |
| or BIOL 4H | Biology for Majors - Honors | |
| BIOL 6L | Humans and the Environment Laboratory | |
| BIOL 8 | Cell and Molecular Biology | |
| BIOL 21 | Marine Biology Laboratory | |
| BIOL 34L | Fundamentals of Genetics Lab | |
| MICR 1 | Principles of Microbiology | |
| or MICR 22 | Microbiology | |
| or Area of Empha | asis | |
| otal Units | | 18 |
| | | |
| Natural Sciences | Division Website (http://www.mtsac.edu/sciences) | |

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Analyze and model chemical, physical or biological systems using scientific and/or mathematical methods.
- Analyze and model chemical, physical or biological systems using scientific and/or mathematical methods.
- Critically read, interpret, and analyze a range of complex text and data to make connections and draw meaningful conclusions.
- Identify and model the professional and ethical responsibilities of a scientist.
- Communicate scientific principles and applications effectively, both verbally and in writing.
- Describe the impact of humans and our technology in an environmental and societal context.
- · Pursue further study or life-long learning in the sciences.
- · Work collaboratively to reach a common goal or solve a problem.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Social & Behavioral Sciences Emphasis, AA Liberal Arts and Sciences

Humanities and Social Sciences Division Degree A8991

An emphasis in Social & Behavioral Sciences provides the student with an understanding of statistics, cultural and gender diversity, the development of the person, biology as it relates to behavior or society, and the historical and political implications on society.

This degree requires the completion of General Education coursework plus the following:

| Course Prefix Core Courses | Course Name | Jnits |
|-------------------------------|--|-------|
| | n of one from the following: | 3 |
| ANTH 1 | Biological Anthropology | |
| or ANTH 1H | Biological Anthropology - Honors | |
| BUSC 1A | Principles of Economics - Macroeconomics | |
| or BUSC 1AF | Principles of Economics - Macroeconomics - Hono | rs |
| BUSC 1B | Principles of Economics - Microeconomics | |
| or BUSC 1BF | Principles of Economics - Microeconomics - Honor | s |
| HIST 1 | History of the United States | |
| or HIST 7 | History of the United States to 1877 | |
| | History of the United States to 1877 - Honors | |
| POLI 1 | Introduction to American Government and Politics | |
| or POLI 1H | Introduction to American Government and Politics Honors | - |
| PSYC 1A | Introduction to Psychology | |
| or PSYC 1AF | Introduction to Psychology - Honors | |
| SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| Choose one from t | the following: | 3-4 |
| MATH 110 | Elementary Statistics | |
| MATH 110H | Elementary Statistics - Honors | |
| PSYC 10 | Statistics for the Behavioral Sciences | |
| Cultural & Gender | Diversity | |
| Choose a minimur | n of three units from the following: | 3 |
| ANTH 30 | The Native American | |
| ANTH 5 | Principles of Cultural Anthropology | |
| or ANTH 22 | General Cultural Anthropology | |
| BIOL 15 | Human Sexuality | |
| or BIOL 15H | Human Sexuality - Honors | |
| GEOG 2 | Human Geography | |
| or GEOG 2H | Human Geography - Honors | |
| GEOG 5 | World Regional Geography | |
| or GEOG 30 | Geography of California | |
| or GEOG 30H | Geography of California - Honors | |
| HIST 36 | Women in American History | |
| JOUR 100 | Introduction to Mass Media | |

| | JOUR 107 | Race, Culture, Sex, and Mass Media Images | |
|----|-------------------|---|---|
| | POLI 25 | Latino Politics in the United States | |
| | POLI 35 | African American Politics | |
| | PSYC 25 | The Psychology of Women | |
| | PSYC 26 | Psychology of Sexuality | |
| | R-TV 01 | Introduction to Electronic Media | |
| | SOC 5 | Introduction to Criminology | |
| | SOC 14 | Marriage and the Family | |
| | or SOC 14H | Marriage and the Family - Honors | |
| | SOC 20 | Sociology of Ethnic Relations | |
| | or SOC 20H | Sociology of Ethnic Relations - Honors | |
| | SPCH 7 | Intercultural Communication | |
| | or SPCH 7H | Intercultural Communication - Honors | |
| De | velopment of th | ne Person | |
| Ch | ioose a minimui | m of three units from the following: | 3 |
| | BIOL 5 | Contemporary Health Issues | |
| | BIOL 13 | Human Reproduction, Development and | |
| | | Aging | |
| | CHLD 1 | Child, Family, School and Community | |
| | CHLD 10 | Child Growth and Lifespan Development | |
| | or CHLD 10H | Child Growth and Lifespan Development- Honors | |
| | PSYC 14 | Developmental Psychology | |
| | PSYC 19 | Abnormal Psychology | |
| | SOC 2 | Contemporary Social Problems | |
| | or SOC 2H | Contemporary Social Problems - Honors | |
| | SOC 4 | Introduction to Gerontology | |
| | SOC 15 | Child Development | |
| Bi | ology as It Relat | tes to Behavior or Society | |
| Cŀ | ioose a minimui | m of three units from the following: | 3 |
| | ANTH 1 | Biological Anthropology | |
| | BIOL 6 | Humans and the Environment | |
| | BIOL 17 | Neurobiology and Behavior | |
| | BIOL 34 | Fundamentals of Genetics | |
| | PSYC 1B | Biological Psychology | |
| Hi | storical and Pol | itical Implications on Society | |
| | | m of three units from the following: | 3 |
| | GEOG 8 | The Urban World | |
| | HIST 1 | History of the United States | |
| | or HIST 7 | History of the United States to 1877 | |
| | or HIST 7H | History of the United States to 1877 - Honors | |
| | or HIST 8 | History of the United States from 1865 | |
| | or HIST 8H | History of the United States from 1865 - Honors | |
| | HIST 10 | History of Premodern Asia | |
| | or HIST 11 | History of Modern Asia | |
| | or HIST 16 | The Wild West - A History, 1800-1890 | |
| | HIST 30 | History of the African American 1619-1877 | |
| | or HIST 31 | History of the African American | |
| | or HIST 35 | History of Africa | |
| | HIST 40 | History of the Mexican American | |
| | or HIST 44 | History of Native Americans | |
| | POLI 9 | Introduction to International Relations | |
| | or POLI 25 | Latino Politics in the United States | |
| | | | |

| or POLI 35 | African American Politics | |
|------------------|--------------------------------|-------|
| PSYC 17 | Introduction to Human Services | |
| For Area of Emph | asis | |
| Total Units | | 18-19 |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| ANTH 3 | Archaeology | 3 |
| BUSM 60 | Human Relations in Business | 3 |
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 73 | Infant and Toddler Development | 3 |
| CHLD 85 | Infants At Risk | 3 |
| COUN 5 | Career and Life Planning | 3 |
| COUN 51 | Career Planning | 1 |
| FCS 41 | Life Management | 3 |
| LIBR 1 | Library Research Methods and Resources | 3 |
| LIT 3 | Multicultural American Literature | 3 |
| LIT 15 | Introduction to Cinema | 3 |
| LIT 20 | African American Literature | 3 |
| LIT 25 | Contemporary Mexican American Literature | 3 |
| PSYC 3 | Introduction to Research Methods in Psychology | 4 |
| PSYC 17 | Introduction to Human Services | 3 |
| PSYC 19 | Abnormal Psychology | 3 |
| PSYC 33 | Psychology for Effective Living | 3 |
| SL 2 | | 1 |
| or SPCH 26 | Interpersonal Communication | |
| or SPCH 26H | Interpersonal Communication - Honors | |

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- · Analyze cultural and gender diversity in humans.
- · Explain the development of the person within society.
- · Explain how biology relates to behavior or society.
- · Discuss historical and political implications on society.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

World Languages & Global Studies, AA

Humanities and Social Studies Division A0429 Degree

The Associate of Arts in World Languages and Global Studies is a multidisciplinary course of study that encourages global awareness and intercultural understanding through the acquisition of at least one modern language other than English, namely Arabic, Chinese, French, German, Italian, Japanese, and Spanish. The coursework is designed with the dual intent of examining the nature of language and relating it to multiculturalism around the globe and in the United States. Overall the program prepares students to function effectively in a global world by promoting a level of linguistic competence and cultural sensitivity that allows individuals to build ties of trust and collaboration across a number of career fields, such as International Business, Government, Teaching, Travel and Arts, Journalism, etc. The elective component of the program allows students to frame their foreign language acquisition within regional cultural studies, global cultural studies or international relations.

This degree requires the completion of General Education coursework plus the following:

| Required Col | 11969 | |
|-----------------|---|-------|
| Course Prefix | Course Name | Units |
| Language Core C | Courses | 16 |
| | e sixteen units of sequential courses in one | |
| language. | | |
| CHIN 1 | Elementary Chinese | |
| CHIN 2 | Continuing Elementary Chinese | |
| CHIN 3 | Intermediate Chinese | |
| CHIN 4 | Continuing Intermediate Chinese | |
| OR | | |
| FRCH 1 | Elementary French | |
| FRCH 2 | Continuing Elementary French | |
| FRCH 3 | Intermediate French | |
| FRCH 4 | Continuing Intermediate French | |
| OR | | |
| ITAL 1 | Elementary Italian | |
| ITAL 2 | Continuing Elementary Italian | |
| ITAL 3 | Intermediate Italian | |
| ITAL 4 | Continuing Intermediate Italian | |
| OR | | |
| JAPN 1 | Elementary Japanese | |
| JAPN 2 | Continuing Elementary Japanese | |
| JAPN 3 | Intermediate Japanese | |
| JAPN 4 | Continuing Intermediate Japanese | |
| OR | | |
| SPAN 1 | Elementary Spanish | |
| SPAN 2 | Continuing Elementary Spanish | |
| SPAN 3 | Intermediate Spanish | |
| SPAN 4 | Continuing Intermediate Spanish | |
| • | e sixteen units in two levels of two different the list above or the following list: | |
| ARAB 1 | Elementary Arabic | |
| ARAB 2 | Continuing Elementary Arabic | |
| GERM 1 | Elementary German | |
| GERM 2 | Continuing Elementary German | |
| GERM 3 | Intermediate German | |
| LATN 1 | Elementary Latin | |
| LATN 2 | Continuing Elementary Latin | |
| SIGN 101 | | |
| | American Sign Language 1 | |
| | 1HAmerican Sign Language 1 - Honors | |
| SIGN 102 | American Sign Language 2 | |
| SIGN 103 | American Sign Language 3 | |
| SIGN 104 | American Sign Language 4 | |
| SIGN 105 | American Sign Language 5 | |
| SPAN 1S | Spanish for the Spanish Speaking | |
| | | |

| SPAN 2S | Continuing Spanish for the Spanish Speaking |
|---------------------|---|
| Choose three unit | s within one of the following tracks: |
| Track A - Regiona | l Cultural Studies |
| For China and Jap | ban: |
| AHIS 9 | History of Asian Art and Architecture |
| HIST 10 | History of Premodern Asia |
| HIST 11 | History of Modern Asia |
| JAPN 53 | Conversational Japanese |
| For France: | |
| FRCH 53 | Intermediate Conversational French |
| FRCH 60 | French Culture Through Cinema |
| For Italy: | |
| AHIS 15 | Culture and Art of Pompeii |
| AHIS 14 | Rome: The Ancient City |
| ITAL 53 | Continuing Conversational Italian |
| ITAL 60 | Italian Culture Through Cinema |
| For Spanish Spea | king Countries: |
| AHIS 12 | History of Precolumbian Art and Architecture |
| or AHIS 12H | History of Precolumbian Art and Architecture - Honor |
| HIST 19 | History of Mexico |
| HIST 40 | History of the Mexican American |
| POLI 25 | Latino Politics in the United States |
| SPAN 53 | Conversational Spanish |
| Track B - Global C | cultural Studies |
| ARCH 250 | World Architecture I |
| ARCH 251 | World Architecture II |
| FASH 14 | Dress, Culture, and Identity |
| HIST 3 | World History: Prehistoric to Early Modern |
| or HIST 3H | World History: Prehistoric to Early Modern - Honors |
| HIST 4 | World History: Early Modern to the Present |
| or HIST 4H | World History: Early Modern to the Present - Honors |
| MUS 14A | World Music |
| HRM 83 | International Cuisines |
| LIT 11A | World Literature to 1650 |
| LIT 11B | World Literature from 1650 |
| NF 28 | Cultural and Ethnic Foods |
| R-TV 25 | World Cinema |
| Track C - Internati | ional Relations |
| GEOG 2 | Human Geography |
| or GEOG 2H | Human Geography - Honors |
| GEOG 5 | World Regional Geography |
| PHIL 15 | Major World Religions |
| | Major World Religions - Honors |
| POLI 9 | Introduction to International Relations |
| | |
| SPCH 7 | Intercultural Communication |
| SPCH 7 | Intercultural Communication Intercultural Communication - Honors |

Demonstrate proficiency in at least one language other than English

- Demonstrate understanding of at least one culture other than their native on
- Demonstrate awareness of the interconnected nature of language and culture
- Recognize cultural expressions across disciplines

Program Learning Outcomes

Upon completion of the program students should be able to:

Associate Degrees for Transfer (AA-T & AS-T) Associate in Arts for Transfer Degree (AS-T)

| Associate in Arts for Transfer Degree (AS-T) | |
|--|-----|
| Art History1 | 87 |
| Communication Studies1 | 87 |
| English 1 | |
| Geography 1 | 89 |
| History1 | 89 |
| Journalism1 | |
| Music 1 | 191 |
| Philosophy 1 | 92 |
| Political Science | 92 |
| Psychology1 | 193 |
| Sociology1 | |
| Studio Arts1 | 195 |
| Theater Arts1 | 195 |
| | |

Associate in Science for Transfer Degree (AS-T)

| Administration of Justice | |
|---------------------------|--|
| Business Administration | |
| Early Childhood Education | |
| Mathematics | |
| Nutrition and Dietetics | |
| Plant Science | |

Art History, AA-T

Humanities and Social Sciences Division Degree A0330

The academic discipline of Art History involves the study of visual objects as both works of art and as artifacts of the historical and cultural contexts in which they were created. The Associate in Arts in Art History for Transfer (AA-T) will provide the student with a solid foundation in both European and non-European art and visual culture from the periods of pre-history through modern. The degree program requires students to critically analyze visual objects from a variety of perspectives, utilizing various modes of analysis.

To earn an Associate in Arts in Art History for Transfer a student must complete 60 semester Units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 Units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|----------------------|---|-------|
| Core Courses | | |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | 3 |
| or AHIS 4H | History of Western Art: Prehistoric Through Goth Honors | ic - |
| AHIS 5 | History of Western Art: Renaissance Through Modern | 3 |
| or AHIS 5H | History of Western Art: Renaissance Through Mo - Honors | dern |
| ARTD 15A | Drawing: Beginning | 3 |
| List A | | |
| Choose one from | the following: | 3 |
| AHIS 9 | History of Asian Art and Architecture | |
| AHIS 11 | History of African, Oceanic, and Native American Art | |
| AHIS 12 | History of Precolumbian Art and Architecture | |
| or AHIS 12I | H History of Precolumbian Art and Architecture - He | onors |
| List B | | |
| Choose one from | the following: | 3 |
| ARTB 14 | Basic Studio Arts | |
| ARTD 17A | Drawing: Life | |
| ARTD 20 | Design: Two-Dimensional | |
| ARTG 20 | Art, Artists and Society | |
| ARTS 22 | Design: Three-Dimensional | |
| ARTS 30A | Ceramics: Beginning I | |
| ARTS 40A | Sculpture: Beginning | |
| PHOT 10 | Basic Digital and Film Photography | |
| List C | | |
| | the following or one course from the e course not selected from List A: | 6 |
| AHIS 3 or AHIS 3H | History of Women and Gender in Art History of Women and Gender in Art - Honors | |
| | • | |

| AHIS 6 | History of Modern Art | |
|---|---|-------|
| or AHIS 6H | History of Modern Art - Honors | |
| AHIS 8 | History of Medieval Art and Architecture | |
| AHIS 10 | A History of Greek and Roman Art and Architecture | |
| AHIS 14 | Rome: The Ancient City | |
| AHIS 15 | Culture and Art of Pompeii | |
| Total Units for Major | | 21 |
| CSU General Education or IGETC Pattern ¹ | | 39-42 |
| Total Units | | 60 |

Courses may be double-counted with either CSU-GE or IGETC.

Art History Website (http://www.mtsac.edu/art-history)

Program Learning Outcomes

Upon successful completion of this program:

- Students will demonstrate the ability to critically analyze visual objects as works of art.
- Students completing a course in "Area C: Arts" will be able to analyze modes of artistic expression.
- Students will demonstrate the ability to critically analyze visual objects as artifacts of visual culture from a variety of perspectives, utilizing various modes of analysis.
- Student completing an assignment will be able to identify the influence of culture on human expression.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Communication Studies, AA-T

Humanities and Social Sciences Division Degree A0325

Communication Studies is a broad-based discipline with foundational coursework in oral communication theory and skills development, augmented with course options that add dimension and depth to the student's understanding of the discipline – such as interpersonal, group, organizational and intercultural communication, argumentation, journalism, forensics, and communication research methods.

The degree program requires students to critically analyze information and arguments, select and research an appropriate topic and thesis, and logically organize the supporting material into a well-crafted presentation. Students will employ appropriate verbal and nonverbal delivery skills and visual aids to present a message to an audience in a conversational and confident manner; and formulate communication solutions to problems in a range of contexts. Students will create messages appropriate for diverse audiences and listeners and develop an improved understanding of themselves as communicators.

To earn an Associate in Arts in Communication Studies for Transfer a student must complete 60 semester Units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 Units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------------------------------|--|-------|
| Core Courses | | |
| SPCH 1A | Public Speaking | 4 |
| or SPCH 1AH | Public Speaking - Honors | |
| List A | | |
| Choose two cours | ses from the following: | 6 |
| SPCH 6 | Group Communication | |
| SPCH 20 | Argumentation and Debate | |
| or SPCH 20 | -Argumentation and Debate - Honors | |
| SPCH 26 | Interpersonal Communication | |
| or SPCH 26 | HInterpersonal Communication - Honors | |
| List B | | |
| Choose any two c not selected from | ourses from the following or any one course List A: | 6-7 |
| SPCH 2 | Fundamentals of Communication | |
| SPCH 4 | Performance of Literature | |
| SPCH 7 | Intercultural Communication | |
| or SPCH 7H | Intercultural Communication - Honors | |
| Limit of three unit | s from: | |
| JOUR 100 | Introduction to Mass Media | |
| SPCH 15 | Forensics: Fundamentals of Contest Speech and Debate | |
| or SPCH 16 | Forensics: Individual Event Team | |
| or SPCH 17 | Forensics: Debate Team | |
| or SPCH 18 | Forensics: Reader's Theater Team | |
| List C | | |
| | ne course from the following or any one ed from List A or List B: | 3-4 |
| ENGL 1C | Critical Thinking and Writing | |
| or ENGL 1C | -Critical Thinking and Writing - Honors | |
| JOUR 101 | Beginning Newswriting | |
| SPCH 3 | Voice and Diction | |
| SPCH 8 | Professional and Organizational Speaking | |
| or SPCH 8H | Professional and Organizational Speaking - Hon | ors |
| SPCH 30 | Gateway to Communication Studies | |
| Total Units for Ma | ijor | 19-21 |
| CSU Conoral Edu | cation or IGETC Pattern ¹ | 39-42 |

Communication Website (http://www.mtsac.edu/communications) ¹ - Courses may be double-counted with either CSU-GE or IGETC.

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- · Critically analyze information and arguments.
- · Select and research an appropriate topic and thesis.
- Logically organize supporting materials into a well-crafted presentation.
- Demonstrate effective verbal and non-verbal delivery skills to present a message to a live audience in a confident manner.
- Formulate communication solutions to problems in a range of contexts.
- · Create messages appropriate for diverse audiences and listener.

• Develop an improved understanding of themselves as communicators.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

English, AA-T

Humanities and Social Sciences Division Degree A0332

The Associate in Arts in English for Transfer introduces students to Literature written in English and gives them the option of studying creative writing. Completion of the degree provides students with the core skills and knowledge needed to pursue a baccalaureate degree in English. Those core skills and knowledge include the ability to analyze literature and the ability to write researched analytical papers. Students who earn this degree will be able to write a literary analysis, analyze major themes and concerns in literature, and identify the influence of culture on human expression.

To earn an Associate in Arts in English for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

| Course Prefix Core Courses | Course Name | Units |
|--|--|-------|
| ENGL 1B | English - Introduction to Literary Types | 3 |
| or ENGL 1BH | English - Introduction to Literary Types - Honors | |
| ENGL 1C | Critical Thinking and Writing | 4 |
| or ENGL 1CH | Critical Thinking and Writing - Honors | |
| List A: Choose on | e sequence from the following: | 6 |
| LIT 1 & LIT 2 | Early American Literature and Modern American Literature | |
| LIT 6A & LIT 6B | Survey of English Literature and Survey of English Literature | |
| LIT 11A | World Literature to 1650 | |
| & LIT 11B | and World Literature from 1650 | |
| | e course from the following or any course | 3 |
| not selected from | | |
| ENGL 8A | Creative Writing - Fiction | |
| ENGL 8B | Creative Writing - Poetry | |
| ENGL 8F | Creative Writing - Nonfiction | |
| ENGL 81 | Language Acquisition | |
| List C: Choose on not selected from | e course from the following or any course I List A or List B: | 3 |
| JOUR 100 | Introduction to Mass Media | |
| JOUR 101 | Beginning Newswriting | |
| LIT 10 | Survey of Shakespeare | |
| LIT 14 | Introduction to Modern Poetry | |
| LIT 15 | Introduction to Cinema | |
| LIT 25 | Contemporary Mexican American Literature | |
| LIT 36 | Introduction to Mythology | |

| LIT 40 | Children's Literature | |
|---|--|-------|
| LIT 46 | The Bible As Literature: Old Testament | |
| LIT 47 | The Bible As Literature: New Testament | |
| Total Units for Major | | 19 |
| CSU General Education or IGETC Pattern ¹ | | 39-42 |
| Total Units | | 60 |

Total Units

¹ Courses may be double-counted with either CSU-GE or IGETC.

English, Literature, and Journalism Website (http://www.mtsac.edu/elj)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- · write an essay using appropriate academic format
- write researched analytical papers using proper documentation
- · analyze major themes in a range of literary genres
- compare and contrast literary elements such as authorial approaches, narrative styles, character development, and thematic concerns
- recognize cultural influences on literature

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Geography, AA-T

Humanities and Social Sciences Division Degree A0356

Geography is a diverse discipline, with foundational coursework in both Earth and Social Sciences. Such foundational courses are augmented by coursework that applies geographic principles to particular world regions and by courses that explore the fundamental human-environment relationship, including coursework in Anthropology, Political Science, Biology and Earth Sciences.

To earn an Associate in Arts in Geography for Transfer degree, a student must complete 60 semester units that are eligible for transfer to the CSU system that consist of the IGETC pattern or CSU GE breadth and a major of a minimum of 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| Core Courses | | |
| GEOG 1 | Physical Geography | 3 |
| or GEOG 1H | Physical Geography - Honors | |
| GEOG 1L | Physical Geography Laboratory | 1 |
| or GEOG 1LH | Physical Geography Laboratory - Honors | |
| GEOG 2 | Human Geography | 3 |
| or GEOG 2H | Human Geography - Honors | |
| List A: | | |
| GEOG 5 | World Regional Geography | 3 |
| GEOG 30 | Geography of California | 3 |
| or GEOG 30H | Geography of California - Honors | |

| GEOG 10 | Introduction to Geographic Information Systems | 3 |
|----------------|---|-------|
| List B: | | |
| ANTH 5 | Principles of Cultural Anthropology | 3 |
| Total Units fo | or Major | 19 |
| CSU General | Education or IGETC Pattern ¹ | 39-42 |
| Total Units | 60 | |

Courses may be double-counted with either CSU-GE or IGETC.

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- Apply geographic principles to particular world regions.
- · Analyze the fundamental human-environment relationship.
- · Evaluate spatial variation in human and physical processes.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

History, AA-T

Humanities and Social Sciences Division Dearee A0334

History is a broad-based academic discipline with foundational coursework in both World History and The History of the United States, augmented with course options that add dimension and depth to the student's understanding of the discipline-such as history courses outside of the Western World, courses in the humanities or social sciences (including history) that address any historically underrepresented group or non-western subject matter fulfilling transfer level GE categories and courses in foreign languages.

The degree program requires students to critically analyze material from a variety of sources and to develop links and connections in abstracting fundamental meaning of historical data. The course distribution of the degree will expose the students to the complexity and diversity of the historical past, thus placing the present day issues and problems within a meaningful historical context.

To earn an Associate in Arts in History for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

| Core Courses | • |
|--|---|
| Cole Courses | ~ |
| HIST 7 History of the United States to 1877 | 3 |
| or HIST 7H History of the United States to 1877 - Honors | |
| HIST 8 History of the United States from 1865 | 3 |
| or HIST 8H History of the United States from 1865 - Honors | |
| List A | |
| HIST 3 World History: Prehistoric to Early Modern | 3 |
| or HIST 3H World History: Prehistoric to Early Modern - Honors | |
| HIST 4 World History: Early Modern to the Present | 3 |

| or HIST 4H | World History: Early Modern to the Present - Honors |
|----------------------|--|
| List B: Choose | one course from each group: |
| Group 1: Divers | ity Course 3 |
| AHIS 9 | History of Asian Art and Architecture |
| AHIS 11 | History of African, Oceanic, and Native American Art |
| AHIS 12 | History of Precolumbian Art and Architecture |
| AHIS 12H | History of Precolumbian Art and Architecture - Honors |
| ARAB 1 | Elementary Arabic |
| ARAB 2 | Continuing Elementary Arabic |
| CHIN 1 | Elementary Chinese |
| CHIN 2 | Continuing Elementary Chinese |
| CHIN 3 | Intermediate Chinese |
| CHIN 4 | Continuing Intermediate Chinese |
| FRCH 1 | Elementary French |
| FRCH 2 | Continuing Elementary French |
| FRCH 3 | Intermediate French |
| FRCH 4 | Continuing Intermediate French |
| GERM 1 | Elementary German |
| GERM 2 | Continuing Elementary German |
| GERM 3 | Intermediate German |
| HIST 10 | History of Premodern Asia |
| HIST 11 | History of Modern Asia |
| HIST 19 | History of Mexico |
| HIST 30 | History of the African American 1619-1877 |
| HIST 31 | History of the African American |
| HIST 35 | History of Africa |
| HIST 36 | Women in American History |
| HIST 40 | History of the Mexican American |
| HIST 44 | History of Native Americans |
| ITAL 1 | Elementary Italian |
| ITAL 2 | Continuing Elementary Italian |
| ITAL 3 | Intermediate Italian |
| ITAL 4 | Continuing Intermediate Italian |
| JAPN 1 | Elementary Japanese |
| JAPN 2 | Continuing Elementary Japanese |
| JAPN 3 | Intermediate Japanese |
| JAPN 4 | Continuing Intermediate Japanese |
| JAPN 5 | Advanced Japanese |
| LATN 1 | Elementary Latin |
| LATN 2 | Continuing Elementary Latin |
| LIT 20 | African American Literature |
| LIT 25 | Contemporary Mexican American Literature |
| POLI 25 | Latino Politics in the United States |
| POLI 25 POLI 35 | African American Politics |
| SPAN 1 | Elementary Spanish |
| SPAN 1 SPAN 2 | Continuing Elementary Spanish |
| SPAN 2 SPAN 3 | Intermediate Spanish |
| SPAN 3 SPAN 4 | Continuing Intermediate Spanish |
| SPAN 4 SIGN 101 | American Sign Language 1 |
| SIGN 101 SIGN 102 | |
| SIGN IUZ | American Sign Language 2 |

| SIGN 103 | American Sign Language 3 | |
|-------------------------|--|-------|
| SIGN 104 | American Sign Language 4 | |
| SIGN 202 | American Deaf Culture | |
| Group 2: Histor | y-Related Humanities Course | 3 |
| AHIS 1 | Understanding the Visual Arts | |
| AHIS 3 | History of Women and Gender in Art | |
| AHIS 3H | History of Women and Gender in Art - Honors | |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | |
| AHIS 4H | History of Western Art: Prehistoric Through Gothic - Honors | |
| AHIS 5 | History of Western Art: Renaissance Through Modern | |
| AHIS 5H | History of Western Art: Renaissance | |
| | Through Modern - Honors | |
| AHIS 6 | History of Modern Art | |
| AHIS 6H | History of Modern Art - Honors | |
| AHIS 9 | History of Asian Art and Architecture | |
| AHIS 10 | A History of Greek and Roman Art and Architecture | |
| AHIS 11 | History of African, Oceanic, and Native American Art | |
| AHIS 12 | History of Precolumbian Art and Architecture | |
| AHIS 12H | History of Precolumbian Art and Architecture - Honors | |
| ANTH 5 | Principles of Cultural Anthropology | |
| ANTH 22 | General Cultural Anthropology | |
| ANTH 30 | The Native American | |
| ARTB 1 | Understanding the Visual Arts | |
| DN-T 20 | History and Appreciation of Dance | |
| GEOG 2 | Human Geography | |
| GEOG 2H | Human Geography - Honors | |
| GEOG 5 | World Regional Geography | |
| HIST 39 | California History | |
| HUMA 1 | The Humanities | |
| LIT 11A | World Literature to 1650 | |
| LIT 11B | World Literature from 1650 | |
| MUS 12 | History of Jazz | |
| MUS 14A | World Music | |
| MUS 14B | American Folk Music | |
| MUS 15 | Rock Music History and Appreciation | |
| PHOT 15 | History of Photography | |
| THTR 10 | History of Theater Arts | |
| Total Units for I | - | 18-19 |
| CSU General Ed | lucation or IGETC Pattern ¹ | 39-42 |
| Total Units | | 60 |
| ¹ Courses ma | y be double-counted with either CSU-GE or IGET |). |

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Analyze the relationship between social, political, and/or economic institutions and human behavior from a historical perspective
- Identify and evaluate major agents of change/reform across time in the United States and other countries and continents.
- Differentiate among changes in American Constitutional government over time and discuss its impact.
- Identify the influence of culture on human expression and analyze cultural and gender diversity in humans.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Journalism, AA-T

Humanities and Social Science Division Degree A0400

The Associate in Arts in Journalism for Transfer provides a broad base of education in the discipline and introduces students to journalism and multimedia. It gives students the option of studying journalistic writing for traditional and online media. Completion of the degree provides students with the core skills and knowledge needed to pursue a baccalaureate degree in Journalism. Students who earn this degree will be able to transfer to university or enter the local job market. In this program, students will gain hands-on experience with all aspects of news gathering, organizing, writing, and disseminating information.

To earn an Associate in Arts degree for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| Core Courses | | |
| JOUR 100 | Introduction to Mass Media | 3 |
| JOUR 101 | Beginning Newswriting | 3 |
| JOUR 114 | Student News Media Staff | 3 |
| LIST A | | |
| Choose one cours | se from the following: | 3 |
| JOUR 102 | Intermediate Newswriting | |
| JOUR 108 | Introduction to Public Relations | |
| JOUR 115 | Student News Media Editing Staff | |
| JOUR 116 | Multimedia Storytelling | |
| LIST B | | |
| Choose two cours | ses from the following | 6-7 |
| BUSC 1A | Principles of Economics - Macroeconomics | |
| or BUSC 1A | HPrinciples of Economics - Macroeconomics - Hor | nors |
| ENGL 1C | Critical Thinking and Writing | |
| or ENGL 1C | - Critical Thinking and Writing - Honors | |
| PHOT 10 | Basic Digital and Film Photography | |
| POLI 1 | Introduction to American Government and Politics | |
| or POLI 1H | Introduction to American Government and Politic Honors | cs - |

| POLI 2 | Comparative Politics | |
|-----------------|---------------------------------------|----|
| SPCH 20 | Argumentation and Debate | |
| or SPCH 2 | 20F Argumentation and Debate - Honors | |
| Total Units for | 18-19 | |
| CSU General E | 39-42 | |
| Total Units | | 60 |
| | | |

¹ Courses may be double-counted with either CSU-GE or IGETC

Journalism Website (http://mtsac.edu/elj/journ/aatdegree.html)

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Critically and ethically evaluate and apply functions of the mass media.
- · Create and/or analyze content in diverse settings.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Music, AA-T

Arts Division

Degree A0347

Music is a broad-based academic discipline with foundational coursework in theory and performance. By providing a theoretical understanding of the development and creation of music, along with requisite technical proficiency, it is expected that these skills will be used to demonstrate musical sensitivity and creativity as a soloist or in the context of a musical ensemble. To further foster these skills, optional courses in the areas of piano and music history should also be taken. The degree requires four semesters of theory, four semesters of applied music (lessons), and four semesters of musical ensemble to provide the skills necessary for transferring to a 4-year institution to pursue a degree in music, including composition, performance, and/or music education.

To earn an associate degree for transfer, a student must complete 60 semester units that are eligible for transfer to a CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

| Course Prefix Theory & Musicia | Units | |
|-----------------------------------|--|-----|
| Choose one cours | se from the following: | 3-4 |
| MUS 2 & MUS 5A | Music Theory and Musicianship - Ear Training and Sight Singing | |
| MUS 7 | Fundamentals of Music | |
| MUS 3A | Harmony - Diatonic | 3 |
| MUS 3B | Harmony - Chromatic I | 3 |
| MUS 3C | Harmony - Chromatic II | 3 |
| MUS 5B | Musicianship - Diatonic | 1 |
| MUS 6A | Musicianship - Chromatic I | 1 |
| MUS 6B | Musicianship - Chromatic II | 1 |

Applied Music

| ripplied maolo | | | | | |
|-------------------------------|--|-----|--|--|--|
| 4 semesters, 0. | 2 | | | | |
| MUS 16 Individual Instruction | | | | | |
| Ensemble | | | | | |
| 6 units or 4 ser | nesters, variable 1.5-2 units each | 5-8 | | | |
| MUS 27 | Chamber Music | | | | |
| MUS 31 | Concert Choir | | | | |
| MUS 34 | Women's Vocal Ensemble | | | | |
| MUS 39 | Laboratory Band | | | | |
| MUS 45 | Chamber Singers | | | | |
| MUS 47 | Jazz Ensemble | | | | |
| MUS 48 | Men's Vocal Ensemble | | | | |
| MUS 49 | Wind Ensemble | | | | |
| MUS 50 | Jazz Improvisation and Performance Choir | | | | |
| Total Units for | 23-26 | | | | |
| CSU General E | 39-42 | | | | |
| Total Units | | 60 | | | |
| | | | | | |

¹ Courses may be double-counted with either CSU-GE or IGETC.

Music Department Website (http://mtsac.edu/music)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate proficiency in the rehearsal, collaboration and performance of music across a wide range of compositional styles and in a variety of venues.
- Demonstrate proficiency in the analysis and composition of tonal music.
- Students will demonstrate proficiency in the dictation and sight singing of tonal music
- Demonstrate proficiency in sight reading, transposition and improvisation at the keyboard
- Comprehend and communicate in writing the cultural and historical contexts of music, as well as stylistic differences, in the Western classical traditions.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Philosophy, AA-T

Humanities and Social Science Division Degree A0424

Philosophy studies basic issues in ethics, social philosophy, metaphysics, epistemology, and contemporary philosophies of life. Special consideration is given to an understanding of sound thinking and constructing well thought out arguments.

The degree program requires students to develop a foundational knowledge necessary to pursue post-secondary degrees in philosophy and a variety of specializations in the field. Moreover, the program fosters critical thinking and critically analysis of philosophical arguments. The degree provides students with a core curriculum that instills the knowledge, skills, and practices of philosophical content, theory and methodology. The Associate in Arts in Philosophy for Transfer degree is designed to assist students in seamlessly transferring to a CSU major in Philosophy. To earn an Associate in Arts in Philosophy for Transfer degree, a student must complete 60 semester units that are eligible for transfer to the CSU system that consist of the IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirement.

| Required Course | 25 | |
|------------------------|--|-------|
| Course Prefix | Course Name | Units |
| CORE COURSES | | 6 |
| PHIL 3 | Introduction to Logic | |
| or PHIL 3H | Introduction to Logic - Honors | |
| Plus one course f | rom: | |
| PHIL 5 | Introduction to Philosophy | |
| or PHIL 5H | Introduction to Philosophy - Honors | |
| PHIL 12 | Introduction to Ethics | |
| or PHIL 12H | I Introduction to Ethics - Honors | |
| LIST A | | 3 |
| | ts from the following list or any course not | |
| selected from cor | re courses | |
| PHIL 20A | History of Ancient Philosophy | |
| or PHIL 20A | History of Ancient Philosophy - Honors | |
| PHIL 20B | History of Modern Philosophy | |
| or PHIL 20B | History of Modern Philosophy | |
| PHIL 8 | Critical Thinking | |
| PHIL 9 | Critical Thinking and Writing | |
| or PHIL 9H | Critical Thinking and Writing - Honors | |
| PHIL 15 | Major World Religions | |
| or PHIL 15H | I Major World Religions - Honors | |
| ENGL 1C | Critical Thinking and Writing | |
| or ENGL 1C | HCritical Thinking and Writing - Honors | |
| LIST B: Select any | y two courses from LIST A not already used. | 6-7 |
| LIST C: Select any | y one course from LIST A not already used | 3-4 |
| Total Units for the | • | 18-19 |
| CSU General Edu | cation or IGETC Pattern ¹ | |
| Total Units | | 60 |

Courses may be double-counted with either CSU-GE or IGETC.

Program Learning Outcomes Political Science, AA-T

1

Humanities and Social Sciences Division Degree A0345

Political Science introduces students to political science theories and methodologies used in the scientific study of political institutions and behavior. The Associate in Arts in Political Science for Transfer degree will provide students with the foundational knowledge necessary to identify research and statistical methods appropriate to political science, to compare and contrast the major theoretical perspectives in political science, and synthesize the analysis of institutions and individuals. The Associate in Arts in Political Science for Transfer degree is designed to assist students in seamlessly transferring to a CSU major in Political Science. To earn an associate degree for transfer, a student must complete 60 semester units that are eligible for transfer to a CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix Core Courses | Course Name | Units |
|--|---|-------|
| POLI 1 | Introduction to American Government and | 3 |
| FOLIT | Politics | 3 |
| or POLI 1H | Introduction to American Government and Politic Honors | S - |
| List A | | |
| Choose three cou | irses from the following: | 9-10 |
| MATH 110 | Elementary Statistics | |
| or MATH 11 | 0Elementary Statistics - Honors | |
| or PSYC 10 | Statistics for the Behavioral Sciences | |
| POLI 2 | Comparative Politics | |
| POLI 5 | Political Theory I - Ancient to Contemporary | |
| POLI 9 | Introduction to International Relations | |
| List B | | |
| Choose two cours selected in List A | ses from the following or any course not : | 6 |
| ANTH 5 | Principles of Cultural Anthropology | |
| ANTH 22 | General Cultural Anthropology | |
| BUSC 1A | Principles of Economics - Macroeconomics | |
| or BUSC 1A | HPrinciples of Economics - Macroeconomics - Hor | nors |
| GEOG 2 | Human Geography | |
| or GEOG 2H | Human Geography - Honors | |
| GEOG 5 | World Regional Geography | |
| GEOG 30 | Geography of California | |
| or GEOG 30 | FGeography of California - Honors | |
| HIST 1 | History of the United States | |
| HIST 4 | World History: Early Modern to the Present | |
| or HIST 4H | World History: Early Modern to the Present - Hone | ors |
| HIST 7 | History of the United States to 1877 | |
| or HIST 7H | History of the United States to 1877 - Honors | |
| HIST 8 | History of the United States from 1865 | |
| or HIST 8H | History of the United States from 1865 - Honors | |
| POLI 7 | Political Theory II - Early Modern to Contemporary | |
| POLI 10 | Environmental Politics | |
| POLI 25 | Latino Politics in the United States | |
| POLI 35 | African American Politics | |
| PSYC 1A | Introduction to Psychology | |
| or PSYC 1A | HIntroduction to Psychology - Honors | |
| SOC 1 | Sociology | |
| or SOC 1H | Sociology - Honors | |
| Total Units for Ma | ajor | 18-19 |

| CSU General Education or IGETC Pattern ¹ | | | | | | 39-42 | | | |
|---|--|--|--|--|--|-------|------|--|----|
| Total Units | | | | | | | | | 60 |
| 1 . | | | | | | | | | |

Courses may be double-counted with either CSU-GE or IGETC.

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- Explain political institutions and processes of the United States government.
- Identify research and statistical methods appropriate to Political Science.
- Compare and contrast major theoretical perspectives in Political Science.
- · Analyze the relationships between governments globally.
- Compare and contrast the institutions and processes of governments around the world.

Psychology, AA-T

Humanities and Social Sciences Division Degree A0324

The Associate in Arts in Psychology for Transfer introduces students to the psychological principles and methodologies used in the scientific study of mental processes and behaviors. Students will acquire the foundational knowledge necessary to pursue post-secondary degrees in psychology and a variety of specialization in the field. The goals of this degree are to prepare students to identify research and statistical methods appropriate to psychology, to compare and contrast the major theoretical perspectives in psychology, and synthesize the relationships between biological and behavioral functions.

To earn an associate degree for transfer, a student must complete 60 semester units that are eligible for transfer to CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| Core Courses | | |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| PSYC 3 | Introduction to Research Methods in Psychology | 4 |
| Choose one of th | e following: | 3-4 |
| PSYC 10 | Statistics for the Behavioral Sciences | |
| MATH 110 | Elementary Statistics | |
| MATH 110H | Elementary Statistics - Honors | |
| List A | | |
| BIOL 1 | General Biology | 3-4 |
| or PSYC 1B | Biological Psychology | |
| List B | | |

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Choose one course from the following or any course not already selected from List A:

| PSYC 14 | Developmental Psychology | |
|-------------------|---|-------|
| BIOL 13 | Human Reproduction, Development and Aging | |
| CHLD 10 | Child Growth and Lifespan Development | |
| CHLD 10H | Child Growth and Lifespan Development- Honors | |
| ENGL 1C | Critical Thinking and Writing | |
| ENGL 1CH | Critical Thinking and Writing - Honors | |
| PHIL 3 | Introduction to Logic | |
| PHIL 3H | Introduction to Logic - Honors | |
| PHIL 8 | Critical Thinking | |
| PHIL 9 | Critical Thinking and Writing | |
| SOC 1 | Sociology | |
| SOC 1H | Sociology - Honors | |
| SOC 15 | Child Development | |
| List C | | |
| | urse from the following or any course not d from List A or List B: | 3-4 |
| PSYC 5 | Psychology of Reasoning and Problem Solving | |
| PSYC 14 | Developmental Psychology | |
| PSYC 15 | Introduction to Child Psychology | |
| PSYC 19 | Abnormal Psychology | |
| PSYC 25 | The Psychology of Women | |
| PSYC 26 | Psychology of Sexuality | |
| PSYC 33 | Psychology for Effective Living | |
| Total Units for I | Major | 19 |
| CSU General Ed | lucation or IGETC Pattern ¹ | 39-42 |
| Total Units | | 60 |
| | | |

1 Courses may be double-counted with either CSU-GE or IGETC.

Psychology Website (http://www.mtsac.edu/psychology)

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- · Matriculate to a Bachelor's program in psychology or a related discipline.
- · Describe research and statistical methods appropriate to psychology.
- · Compare and contrast major theoretical perspectives in psychology.
- · Synthesize relationships between biological and behavioral functions.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Sociology, AA-T

Humanities and Social Sciences Division Degree A0419

Sociology introduces students to the systematic and scientific study of human relations and social structures which emphasizes the interaction between personality, culture and society. The Associate in Arts in Sociology for Transfer degree requires students to use sociological theories and research to evaluate the basic dimensions of social

inequality and social change, and assess how social forces shape, guide and influence individual and group behavior. Students will acquire the foundational knowledge necessary to pursue post-secondary degrees in sociology and a variety of specializations in the field. The Associate in Arts in Sociology for Transfer degree is designed to assist students in seamlessly transferring to a CSU major in Sociology.

To earn an Associate in Arts in Sociology for Transfer degree, a student must complete 60 semester units that are eligible for transfer to the CSU system that consist of the IGETC pattern or CSU GE breadth and a major of 18 units more. Students must have a minimum GPA of 2.0 in all CSUtransferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

3-4

| Course Prefix | Course Name | Units |
|---|---|-------|
| Core Courses | | • |
| SOC 1 | Sociology | 3 |
| or SOC 1H | Sociology - Honors | |
| Select two course | | 6 |
| SOC 2 | Contemporary Social Problems | |
| or SOC 2H | Contemporary Social Problems - Honors | |
| MATH 110 | Elementary Statistics | |
| or MATH 11 | 0Elementary Statistics - Honors | |
| or PSYC 10 | Statistics for the Behavioral Sciences | |
| List A | | |
| Select two course | es from the following or any course not | 6 |
| | rom core courses: | |
| SOC 14 | Marriage and the Family | |
| or SOC 14H | Marriage and the Family - Honors | |
| SOC 20 | Sociology of Ethnic Relations | |
| or SOC 20H | Sociology of Ethnic Relations - Honors | |
| SOC 5 | Introduction to Criminology | |
| or SOC 5H | Introduction to Criminology - Honors | |
| List B | | |
| Select one course already selected f | e from the following or any course not from list A | 3-4 |
| SOC 4 | Introduction to Gerontology | |
| SOC 7 | Sociology of Religion | |
| SOC 15 | Child Development | |
| SOC 36 | Asian American Communities | |
| ENGL 1C | Critical Thinking and Writing | |
| or ENGL 1CH | HCritical Thinking and Writing - Honors | |
| GEOG 2 | Human Geography | |
| or GEOG 2H | Human Geography - Honors | |
| PHIL 3 | Introduction to Logic | |
| or PHIL 3H | Introduction to Logic - Honors | |
| PHIL 8 | Critical Thinking | |
| PHIL 9 | Critical Thinking and Writing | |
| or PHIL 9H | Critical Thinking and Writing - Honors | |
| PSYC 1A | Introduction to Psychology | |
| or PSYC 1A | -Introduction to Psychology - Honors | |
| Total Units for Ma | ijor | 18-20 |

| CSU General Education or IGETC Pattern ¹ | 39-42 |
|---|-------|
| Total Units | 60 |

¹ Courses may be double-counted with either CSU-GE or IGETC.

Program Learning Objectives

Upon successful completion of this program, a student will be able to:

- Analyze cultural and gender diversity in humans.
- · Explain the development of the person within society.
- · Explain how biology relates to behavior or society.
- · Discuss historical and political implications on society.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Studio Arts, AA-T

Arts Division

Degree A0395

The Associate of Arts in Studio Arts for Transfer is designed to facilitate successful transfer to baccalaureate art degree programs. This degree provides students with the lower division breadth and depth of the field of art. This degree exposes students to the core principles and practices in the field. Students will learn to visually express personal experience and thought with skill and clarity. Students will acquire fundamental visual experiences and concepts basic to many forms and fields of art, animation and design.

To earn an Associate in Arts in Studio Arts for Transfer (AA-T) a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSUtransferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|-----------------|--|-------|
| Core Courses | | |
| AHIS 5 | History of Western Art: Renaissance Through Modern | 3 |
| or AHIS 5H | History of Western Art: Renaissance Through Mo - Honors | dern |
| ARTD 15A | Drawing: Beginning | 3 |
| ARTD 20 | Design: Two-Dimensional | 3 |
| ARTS 22 | Design: Three-Dimensional | 3 |
| LIST A | | |
| Choose one from | the following: | 3 |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | |
| or AHIS 4H | History of Western Art: Prehistoric Through Goth Honors | ic - |
| LIST B | | 9 |
| ARTD 17A | Drawing: Life | |
| ARTD 21 | Design: Color and Composition | |
| ARTD 25A | Beginning Painting I | |

| Total Units for Major | 24 |
|---|-------|
| CSU General Education or IGETC Pattern ¹ | 39-42 |
| Total Units | 60 |

¹ Courses may be double-counted with either CSU-GE or IGETC.

Fine Arts Website (http://www.mtsac.edu/finearts)

Program Learning Outcomes

Upon the successful completion of this program, a student will:

- Be prepared to transfer to the California State University system or other public and private colleges and universities to complete Bachelor of Arts or Bachelor of Fine Arts in Art, Studio Art, Fine Art, or Visual Art degrees.
- Be able to apply visual arts concepts that are basic to many forms and fields of art and design in visual, oral, and written communication.
- Be able to analyze historical, contemporary, peer, and personal visual artwork that range in modes of artistic expression.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Theater Arts, AA-T

Arts Division Degree A0346

The Associate in Arts in Theater Arts for Transfer develops confidence, improves communication skills and provides experiences to work in a collaborative endeavor. In each course, students learn to perfect the skills needed for the discipline of theater while learning to work cooperatively with others in theater-related disciplines. The program emphasizes self-reliance and creative problem solving along with personal artistic development. To earn an Associate in Arts in Theater, a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. The degree allows students the flexibility to pursue a particular area of interest; however, any student who completes the AA-T in Theater Arts will be prepared to pursue an emphasis in acting, technical theater, design, playwriting or general theater. The degree has been designed to assist students who wish to obtain a baccalaureate in Theater. The degree is intended to help the student make an uninterrupted transition to a C.S.U. Students must have a minimum GPA of 2.0 in all major requirements to receive an Associate in Arts in Theater for Transfer degree and all courses in the major must be completed with a C or better. Students earning an Associate in Arts in Theater for Transfer degree will not be required to complete any other local graduation requirements.

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| Core Courses | | |
| THTR 9 | Introduction to Theater Arts | 3 |
| or THTR 10 | History of Theater Arts | |
| THTR 11 | Principles of Acting I | 3 |
| THTR 15 | Play Rehearsal and Performance - Acting | 3 |
| List A | | |
| Choose three cou | rses from the following: | 9-9.5 |
| THTR 12 | Principles of Acting II | |

| THTR 14 | Stagecraft | |
|---|---|---------|
| THTR 15 | Play Rehearsal and Performance - Acting | |
| THTR 16 | Theatrical Make-Up | |
| THTR 18 | Technical Theater Practicum | |
| THTR 19 | Theatrical Costuming | |
| Total Units for Major | | 18-18.5 |
| CSU General Education or IGETC Pattern ¹ | | 39-42 |
| Total Units | | 60 |

¹ Courses may be double-counted with either CSU-GE or IGETC.

Theater Arts Website (http://www.mtsac.edu/theater)

Program Learning Outcomes

Upon the successful completion of this program, a student will:

- Use script analysis and performance techniques to create a character in a live theater performance.
- Analyze and critique the various aspects of a theater production (acting, directing and design) without making value judgments.
- Perform various tasks associated with the creation and implementation of the technical elements (lights, sound, lighting, costumes, and makeup) of a live theater production.
- Understand the interactions of the various theater disciplines and be able to usefully participate in the collaborative environment of theater.
- Analyze and critique elements of the production in their historical and cultural context.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Administration of Justice, AS-T

Technology and Health Division

Degree S0362

The Associate in Science in Administration of Justice for Transfer provides a broad base of education in the discipline. Students will acquire the ability to identify and apply legal precedents in field work, be prepared to understand the use of criminal codes in the investigation and documentation of crime, and become familiarized with the social factors that involve police interaction within the community. The degree will support students interested in branching out into undergraduate studies in the social sciences.

To earn an associate degree for transfer, a student must complete 60 units that are eligible for transfer to CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| Core Courses | | |
| ADJU 1 | The Administration of Justice System | 3 |
| ADJU 3 | Concepts of Criminal Law | 3 |
| List A | | |

| Choose two from | the following: | 6 | |
|---|--|-------|--|
| ADJU 2 | Principles and Procedures of the Justice System | | |
| ADJU 4 | Legal Aspects of Evidence | | |
| ADJU 5 | Community Relations | | |
| ADJU 20 | Principles of Investigation | | |
| ADJU 50 | Introduction to Forensics for Criminal Justice | | |
| List B | | | |
| Choose two from | the following: | 6 | |
| MATH 110 | Elementary Statistics | | |
| or MATH 11 | OElementary Statistics - Honors | | |
| PSYC 1A | Introduction to Psychology | | |
| or PSYC 1A | FIntroduction to Psychology - Honors | | |
| SOC 1 | Sociology | | |
| or SOC 1H | Sociology - Honors | | |
| Total Units for Major | | 18 | |
| CSU General Education or IGETC Pattern ¹ | | 39-42 | |
| Total Units | Total Units | | |

Additional Notations

¹ - Courses may be double-counted with either CSU-GE or IGETC.

In addition to List C, any CSU transferable Administration of Justice lower division course or courses outside the Administration of Justice discipline that are articulated as lower division major preparation for the Criminal Justice or Criminology Major at any CSU.

Administration of Justice Website (http://www.mtsac.edu/justice)

Program Learning Outcomes

Upon successful completion of this program, a student will be able to:

- Demonstrate the principals involved in documenting the investigation of criminal activity.
- · Identify and apply legal precedents in field work.
- Demonstrate familiarity with the social factors related to police interaction with communities.
- Demonstrate understanding of how criminal codes are used and how statutory law is practically applied.
- Demonstrate the ability to use technology and other resources to research social and legal aspects of the criminal justice system.
- Demonstrate the ability to present information in diverse circumstances, with various cultures and communities, involving public and media issues.
- Understand professional skills related to court testimony, interview, interrogation, and law enforcement nomenclature.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Business Administration, AS-T

Business Division Degree S0418

The Associate in Arts in Business Administration for Transfer provides a broad base of education in the discipline and introduces students to the fundamental principles underlying organizations and basic analytical tools of business. It gives students a basis in various business functions and economic analysis. Completion of the degree provides students with the core skills and knowledge needed to pursue a baccalaureate degree in Business Administration. Students who earn this degree will be able to transfer to CSU campus or enter the local job market.

To earn an Associate in Science degree for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Core Courses Principles of Accounting - Financial 5 BUSA 7 Principles of Accounting - Managerial 5 BUSA 8 Principles of Economics - Macroeconomics 5 BUSC 1A Principles of Economics - Macroeconomics - Honors 7 BUSC 1B Principles of Economics - Microeconomics - Honors 3 or BUSC 1BH Principles of Economics - Microeconomics - Honors 3 BUSL 18 Business Law 8 or BUSL 18H Business Law - Honors 3 List A Elementary Statistics 3 | |
|--|--|
| BUSA 8 Principles of Accounting - Managerial 5 BUSC 1A Principles of Economics - Macroeconomics 3 or BUSC 1AH Principles of Economics - Macroeconomics - Honors 3 BUSC 1B Principles of Economics - Microeconomics - Honors 3 or BUSC 1BH Principles of Economics - Microeconomics - Honors 3 BUSL 18 Business Law 3 or BUSL 18H Business Law - Honors 3 List A To an and the second sec | |
| BUSC 1A Principles of Economics - Macroeconomics 3 or BUSC 1AH Principles of Economics - Macroeconomics - Honors 3 BUSC 1B Principles of Economics - Microeconomics - Honors 3 or BUSC 1BH Principles of Economics - Microeconomics - Honors 3 BUSL 1BH Principles of Economics - Microeconomics - Honors 3 BUSL 18 Business Law 3 or BUSL 18H Business Law - Honors 3 List A 3 3 | |
| or BUSC 1AHPrinciples of Economics - Macroeconomics - HonorsBUSC 1BPrinciples of Economics - Microeconomics - 3or BUSC 1BHPrinciples of Economics - Microeconomics - HonorsBUSL 18Business Lawor BUSL 18HBusiness Law - HonorsList A3 | |
| BUSC 1B Principles of Economics - Microeconomics 3 or BUSC 1BH Principles of Economics - Microeconomics - Honors BUSL 18 Business Law 3 or BUSL 18H Business Law - Honors 3 List A 3 | |
| or BUSC 1BH Principles of Economics - Microeconomics - Honors BUSL 18 Business Law 3 or BUSL 18H Business Law - Honors List A 3 | |
| BUSL 18 Business Law 3 or BUSL 18H Business Law - Honors 3 List A 3 | |
| or BUSL 18H Business Law - Honors List A 3 | |
| List A 3 | |
| | |
| MATH 110 Elementary Statistics | |
| | |
| or MATH 11(Elementary Statistics - Honors | |
| List B 6.5 | |
| CISB 11 Computer Information Systems | |
| BUSO 25 Business Communications | |
| Total Units for Major 28.5 | |
| CSU General Education (CSU-GE or IGETC) Units ¹ 39-42 | |
| Total Units 60 | |

¹ Courses may be double counted with either CSU-GE or IGETC.

Business Administration Website (http://www.mtsac.edu/ businessadministration)

Program Learning Outcomes Early Childhood Education, AS-T

Business Division

Degree S0401

The Associate in Science in Early Childhood Education for Transfer requires students to critically analyze child development theory, developmentally appropriate approaches, and instructional strategies that positively influence children's learning and development. Students explore the importance of developmental domains and use their knowledge to design, implement, and evaluate meaningful curriculum and environments that promote comprehensive developmental learning outcomes for children. Child observation, documentation, and assessment are explored as essential practices in order to develop effective curriculum and interventions. The California Title 22 regulations, standards, and policies required for early care and education programs are examined. Ethical guidelines, professional practices, and advocacy are assessed to inform future practitioners of standards in the early childhood profession. The Associate in Science in Early Childhood Education for Transfer degree qualifies students for transfer to a California State University (CSU) to complete a Baccalaureate degree in Early Childhood Education or related majors.

To earn an Associate in Science in Early Childhood Education for Transfer degree, a student must complete 60 semester units that are eligible for transfer to the CSU including only CSU GE breadth and a major of at least 24 units. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix Core Courses | Course Name | Units |
|---|--|-------|
| CHLD 1 | Child, Family, School and Community | 3 |
| CHLD 5 | Principles and Practices in Child Development Programs | 3 |
| CHLD 6 | Introduction to Child Development Curriculum | 3 |
| CHLD 11 | Child and Adolescent Development | 3 |
| CHLD 50 | Teaching in a Diverse Society | 3 |
| CHLD 64 | Health, Safety and Nutrition of Children | 3 |
| CHLD 66 | Early Childhood Development Observation and Assessment | 2 |
| CHLD 66L | Early Childhood Development Observation and Assessment Laboratory | 1 |
| CHLD 67 | Early Childhood Education Practicum | 2 |
| CHLD 67L | Early Childhood Education Practicum Laboratory | 1 |
| Total Units for M | 24 | |
| CSU General Education or IGETC Pattern ¹ | | 39-42 |
| Total Units | | 60 |

¹ - Courses may be double-counted with either CSU-GE or IGETC.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html) for this program.

Mathematics, AS-T

Natural Sciences Division Degree S0333

Upon successful completion of Mt. San Antonio College's Associate in Science in Mathematics for Transfer degree requirements, the student will have demonstrated understanding of differential and integral calculus of one and several variables including infinite series, vector analysis, partial derivatives and transcendental functions, as well as demonstrating knowledge of linear algebra and differential equations. This coursework will satisfy the lower division mathematics requirements at the California State University. Guaranteed admission with junior status to the CSU system will be granted in mathematics (or possibly statistics).

To earn an Associate in Science in Mathematics for Transfer a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC pattern or CSU GE breadth and a major of at least 18 units. Students must have a minimum GPA of 2.0 in all CSUtransferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---|---|-------|
| Core Courses | | |
| MATH 180 | Calculus and Analytic Geometry | 4 |
| MATH 181 | Calculus and Analytic Geometry | 4 |
| MATH 280 | Calculus and Analytic Geometry | 5 |
| List A: | | |
| MATH 285 | Linear Algebra and Differential Equations | 5 |
| List B: | | |
| Choose one cour | rse from the following: | 3-5 |
| CSCI 140 | C++ Language and Object Development | |
| MATH 110 | Elementary Statistics | |
| or MATH 1 | 1 (Elementary Statistics - Honors | |
| MATH 120 | Finite Mathematics | |
| PHYS 4A | Engineering Physics | |
| Total Units for Major | | 21-23 |
| CSU General Education of IGETC Pattern ¹ | | 39-42 |
| Total Units | | 60 |

Courses may be double-counted with either CSU-GE or IGETC.

Math and Computer Science Website (http://www.mtsac.edu/math)

Program Learning Outcomes

1

Upon successful completion of this program, a student will be able to:

- Translate real world phenomena and conceptual ideas into mathematical symbols and equations.
- Use mathematical tools to manipulate, simplify, and transform mathematical expressions.
- · Model real world phenomenon using mathematical equations.
- · Develop techniques to analyze and interpret data.
- Use mathematical tools to effectively communicate outcomes of experiments and describe the nature of real world phenomenon and conceptual ideas.
- Develop ability to effectively use numbers and other abstract representations of real world phenomenon and conceptual ideas.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Nutrition and Dietetics, AS-T

Business Division

S0422

The Associate in Science in Nutrition and Dietetics for Transfer introduces students to the principles and methodologies used in the study of nutrition and dietetics. Students will acquire the foundational knowledge necessary to pursue post-secondary degrees in nutrition and dietetics.

To earn an Associate in Arts in Sociology for Transfer degree, a student must complete 60 semester units that are eligible for transfer to the CSU system that consist of the IGETC pattern or CSU GE breadth and a major of 18 units more. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and

all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|---|---|-------|
| | | |
| Core Courses | | |
| NF 25 | Introduction to Nutrition Science | 3 |
| or NF 25H | Introduction to Nutrition Science - Honors | |
| PSYC 1A | Introduction to Psychology | 3 |
| or PSYC 1AH | Introduction to Psychology - Honors | |
| CHEM 50 | General Chemistry I | 5 |
| or CHEM 50H | General Chemistry I - Honors | |
| Select one course | 2: | 4-5 |
| MICR 1 | Principles of Microbiology | |
| or MICR 22 | Microbiology | |
| List A | | |
| Choose two cours | ses | 7-8 |
| ANAT 10A | ANAT 10A Introductory Human Anatomy ¹ | |
| or ANAT 10 | BIntroductory Human Physiology | |
| MATH 110 Elementary Statistics | | |
| or MATH 11 | (Elementary Statistics - Honors | |
| or PSYC 10 | or PSYC 10 Statistics for the Behavioral Sciences | |
| List B | | |
| Choose one cours | se | |
| NF 20 Principles of Food with Laboratory | | 3 |
| NF 28 Cultural and Ethnic Foods | | 3 |
| Total Units for Major | | |
| CSU Genearl Education or IGETC Pattern ² 3 | | |

Nutrition and Food Website (http://www.mtsac.edu/nutrition)

60

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¹ - Students cannot be awarded credit for

² - Courses may be double-counted with either CSU-GE or IGETC.

Program Learning Outcomes Plant Science, AS-T

Natural Science Division

S0420

Total Units

Plant Science includes topics such as propagation, plant production practices, nursery operations, soil science, plant pest and disease control, and landscape management. The Associate in Science in Plant Science for Transfer prepares students with the foundational knowledge necessary to pursue post-secondary degrees in Plant Science and careers within a variety of specializations in the field. The Associate in Science in Plant Science for Transfer is designed to assist students in seamlessly transferring to a CSU major in Plant Science. To earn an Associate in Science in Plant Science for Transfer, a student must complete a minimum of 60 semester units that are eligible for transfer to the CSU system that consist of the IGETC pattern or CSU GE breadth and a major of at least 18 units more. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.

Required Courses

| Course Prefix | Course Name | Units |
|--------------------------------------|---|-------|
| Core Courses | | |
| AGOR 50 | Soil Science and Management | 3 |
| CHEM 50 | General Chemistry I | 5 |
| or CHEM 50H | General Chemistry I - Honors | |
| BUSC 1B | Principles of Economics - Microeconomics | 3 |
| or BUSC 1BH | Principles of Economics - Microeconomics - Hono | rs |
| MATH 110 | Elementary Statistics | 3 |
| or MATH 110H | Elementary Statistics - Honors | |
| AGOR 1 | Horticultural Science | 3 |
| List A | | |
| Choose one cours | se from the following: | 3 |
| AGOR 2 | Plant Propagation/Greenhouse Management | |
| AGOR 29 | Ornamental Plants - Herbaceous | |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | |
| AGOR 51 | Tractor and Landscape Equipment Operations | |
| List B | | |
| Select any course course from the fe | not already used above, or none or one ollowing list: | 0-3 |
| AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | |
| AGOR 32 | Landscaping and Nursery Management | |
| AGOR 71 | Construction Fundamentals | |
| AGOR 72 | Landscape Hardscape Applications | |
| Total Units for the | e Major 2 | 20-23 |
| CSU General Educ | cation or IGETC Pattern ¹ | 39-42 |
| Total Units | | 60 |

¹ Course may be double-counted with either CSU-GE or IGETC.

Program Learning Outcomes

Transfer Programs Of Study

| Biology | |
|------------------|--|
| Business | |
| Computer Science | |
| Engineering | |
| Kinesiology | |

Biology Transfer Program of Study

As a biology major, success in your math and science courses are important. You will need to complete: calculus, chemistry, physics and biology courses. UC and CSU schools require the completion of 60 transferable units that include English 1A, a critical thinking course, and for CSU transfer, an oral communication class.

Completion of all of your general education (GE) may not be mandatory. Working with a counselor is the best way to map out a transfer plan. We highly recommend that you make an appointment with a counselor to develop an education plan that meets your needs.

Local UC/CSU Biology Major Prep Classes

The courses listed below are commonly required major preparation classes for this major at 4-year transfer institutions. <u>This is not a degree</u>, but a list of course options for transfer. **Required classes can vary**, please visit the Assist website for specific CSU and UC major prep classes.

Link to ASSIST Website: http://www.assist.org/web-assist/welcome.html

Common Major Prep Classes:

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| BIOL 2 | Plant and Animal Biology | 4 |
| BIOL 4 | Biology for Majors | 4 |
| BIOL 8 | Cell and Molecular Biology | 4 |
| CHEM 50 | General Chemistry I | 5 |
| CHEM 51 | General Chemistry II | 5 |
| CHEM 80 | Organic Chemistry | 5 |
| CHEM 81 | Organic Chemistry II | 5 |
| MATH 180 | Calculus and Analytic Geometry | 4 |
| MATH 181 | Calculus and Analytic Geometry | 4 |
| MATH 110 | Elementary Statistics | 3 |
| PHYS 2AG | General Physics | 4 |
| PHYS 2BG | General Physics | 4 |
| PHYS 4A | Engineering Physics | 5 |
| PHYS 4B | Engineering Physics | 5 |
| PHYS 4C | Engineering Physics | 5 |

General Education Patterns

Intersegmental General Education Transfer Curriculum (http:// www.mtsac.edu/transfer/ge_sheets/IGETC.pdf) (UC/CSU) California State University General Education (http://www.mtsac.edu/ transfer/ge_sheets/CSUGE.pdf) (CSU)

Business Transfer Program of Study

As a Business major, understanding your options is important. Mt. San Antonio College also offers an Associate in Science for Transfer (AS-T). The AS-T is designed for students who wish to graduate prior to transfer, and fulfills program requirements for CSU. The AS-T may not fulfill program requirements for UC. UC and CSU schools require the completion of 60 transferable units that include English 1A, a critical thinking course, and for CSU transfer an oral communication class.

Working with a counselor is the best way to map out a transfer plan. We highly recommend that you make an appointment with a counselor to develop an education plan that meets your needs.

The courses listed below are commonly required major preparation classes for this major at 4-year transfer institutions. This is not a degree,

but a list of course options for transfer. **Required classes can vary**, please visit the assist website for specific CSU and UC major prep classes.

Link to ASSIST Website http://www.assist.org/web-assist/welcome.html (http://www.assist.org/web-assist/welcome.html)

| Common Major Prep Classes: | | | | |
|----------------------------|--|-------|--|--|
| Course Prefix | Course Name | Units | | |
| BUSA 7 | Principles of Accounting - Financial | 5 | | |
| BUSA 8 | Principles of Accounting - Managerial | 5 | | |
| BUSC 1A | Principles of Economics - Macroeconomics | 3 | | |
| or BUSC 1AH | Principles of Economics - Macroeconomics - Ho | onors | | |
| BUSC 1B | Principles of Economics - Microeconomics | 3 | | |
| BUSC 1AH | Principles of Economics - Macroeconomics - Honors | 3 | | |
| BUSC 1BH | Principles of Economics - Microeconomics - Honors | 3 | | |
| BUSL 18 | Business Law | 3 | | |
| or BUSL 18H | Business Law - Honors | | | |
| BUSM 20 | Principles of Business | 3 | | |
| BUSO 25 | Business Communications | 3 | | |
| CISB 11 | Computer Information Systems | 3.5 | | |
| CISB 15 | Microcomputer Applications | 3.5 | | |
| MATH 110 | Elementary Statistics | 3 | | |
| or MATH 110H | Elementary Statistics - Honors | | | |
| MATH 140 | Calculus for Business | 4 | | |
| MATH 180 | Calculus and Analytic Geometry | 4 | | |
| MATH 181 | Calculus and Analytic Geometry | 4 | | |
| BUSL 19 | Advanced Business Law | 3 | | |
| | | | | |

General Education Patterns

Intersegmental General Education Transfer Curriculum (http:// www.mtsac.edu/transfer/ge_sheets/IGETC.pdf) (UC/CSU) California State University General Education (http://www.mtsac.edu/ transfer/ge_sheets/CSUGE.pdf) (CSU)

Computer Science Transfer Program of Study

As a Computer Science major, success in your math and science courses are important. You will need to complete: calculus, physics and computer science courses. UC and CSU schools require the completion of 60 transferable units that include English 1A, a critical thinking course, and for CSU transfer an oral communication class. Engineering 1 is an excellent class to explore your options.

Completion of all of your general education (GE) may not be mandatory. Working with a counselor is the best way to map out a transfer plan. We highly recommend that you make an appointment with a counselor to develop an education plan that meets your needs.

The courses listed below are commonly required major preparation classes for this major at 4-year transfer institutions. <u>This is not a degree</u>, but a list of course options for transfer. **Required classes can vary**, please visit the assist website for specific CSU and UC major prep classes.

Link to ASSIST Website http://www.assist.org/web-assist/welcome.html

| Common Major Prep Classes: | | | | |
|----------------------------|---|-------|--|--|
| Course Prefix | Course Name | Units | | |
| CISP 21 | Programming in Java | 3 | | |
| CISP 21L | Programming in Java Laboratory | 0.5 | | |
| CISP 31 | Programming in C++ | 3 | | |
| CISP 31L | Programming in C++ Laboratory | 0.5 | | |
| CSCI 110 | Fundamentals of Computer Science | 3.5 | | |
| CSCI 140 | C++ Language and Object Development | 4 | | |
| CSCI 145 | Java Language and Object Oriented Programming | 4 | | |
| CSCI 190 | Discrete Mathematics Applied to Computer Science | 4 | | |
| CSCI 220 | Data Structures I | 3.5 | | |
| CSCI 230 | Data Structures II | 3.5 | | |
| MATH 180 | Calculus and Analytic Geometry | 4 | | |
| MATH 181 | Calculus and Analytic Geometry | 4 | | |
| MATH 260 | Linear Algebra | 3 | | |
| MATH 280 | Calculus and Analytic Geometry | 5 | | |
| MATH 285 | Linear Algebra and Differential Equations | 5 | | |
| MATH 290 | Differential Equations | 4-4 | | |
| PHYS 4A | Engineering Physics | 5 | | |
| PHYS 4B | Engineering Physics | 5 | | |
| PHYS 4C | Engineering Physics | 5 | | |

General Education Patterns

Intersegmental General Education Transfer Curriculum (http:// www.mtsac.edu/transfer/ge_sheets/IGETC.pdf) (UC/CSU) California State University General Education (http://www.mtsac.edu/ transfer/ge_sheets/CSUGE.pdf) (CSU)

Engineering Transfer Program of Study

As an Engineering major, success in your math and science courses are important. You will need to complete: calculus, physics and engineering courses-in some cases chemistry. UC and CSU schools require the completion of 60 transferable units that include English 1A, a critical thinking course, and for CSU transfer an oral communication class. Engineering 1 is an excellent class to explore your options.

Completion of all of your general education (GE) may not be mandatory. Working with a counselor is the best way to map out a transfer plan. We highly recommend that you make an appointment with a counselor to develop an education plan that meets your needs.

The courses listed below are commonly required major preparation classes for this major at 4-year transfer institutions. <u>This is not a degree</u>, but a list of course options for transfer. **Required classes can vary**, please visit the assist website for specific CSU and UC major prep classes.

Link to ASSIST Website http://www.assist.org/web-assist/welcome.html

Common Major Prep Classes:

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| ENGR 1 | Introduction to Engineering | 1 |
| ENGR 7 | Programming Applications for Engineers | 4 |
| ENGR 8 | Properties of Materials | 4 |
| ENGR 24 | Engineering Graphics | 4 |

| ENGR 40 | Statics | 3 |
|-------------|---|-----|
| ENGR 41 | Dynamics | 3 |
| ENGR 42 | Mechanics of Materials | 4 |
| CHEM 50 | General Chemistry I | 5 |
| or CHEM 50H | General Chemistry I - Honors | |
| CHEM 51 | General Chemistry II | 5 |
| or CHEM 51H | General Chemistry II - Honors | |
| MATH 180 | Calculus and Analytic Geometry | 4 |
| MATH 181 | Calculus and Analytic Geometry | 4 |
| MATH 260 | Linear Algebra | 3 |
| MATH 280 | Calculus and Analytic Geometry | 5 |
| MATH 285 | Linear Algebra and Differential Equations | 5 |
| MATH 290 | Differential Equations | 4-4 |
| PHYS 4A | Engineering Physics | 5 |
| PHYS 4B | Engineering Physics | 5 |
| PHYS 4C | Engineering Physics | 5 |

General Education Patterns

Intersegmental General Education Transfer Curriculum (http:// www.mtsac.edu/transfer/ge_sheets/IGETC.pdf) (UC/CSU) California State University General Education (http://www.mtsac.edu/ transfer/ge_sheets/CSUGE.pdf) (CSU)

Kinesiology Transfer Program of Study

As a Kinesiology major, understanding your options is important. Common tracks are pre-physical therapy, physical education, athletic training, and exercise science. Kinesiology is an applied learning major and is primarily offered through the CSU system. CSU schools require the completion of 60 transferable units that include English 1A, a critical thinking course, and an oral communication class.

Working with a counselor is the best way to map out a transfer plan. We highly recommend that you make an appointment with a counselor to develop an education plan that meets your needs.

The courses listed below are commonly required major preparation classes for this major at 4-year transfer institutions. <u>This is not a degree</u>, but a list of preparation course options for transfer. **Required classes can vary**, please visit the Assist website for specific CSU and UC major prep classes.

Link to ASSIST Website http://www.assist.org/web-assist/welcome.html (http://www.assist.org/web-assist/welcome.html)

Common CSU Kinesiology Major Prep Classes

| Course Prefix | Course Name | Units |
|---------------|-------------------------------|-------|
| ANAT 10A | Introductory Human Anatomy | 4 |
| ANAT 35 | Human Anatomy | 5 |
| ANAT 10B | Introductory Human Physiology | 4 |
| ANAT 36 | Human Physiology | 5 |
| BIOL 1 | General Biology | 4 |
| BIOL 2 | Plant and Animal Biology | 4 |
| BIOL 4 | Biology for Majors | 4 |
| or BIOL 4H | Biology for Majors - Honors | |
| CHEM 50 | General Chemistry I | 5 |
| or CHEM 50H | General Chemistry I - Honors | |

| CHEM 51 | General Chemistry II | 5 |
|----------|--|---|
| CHEM 80 | Organic Chemistry | 5 |
| CHEM 81 | Organic Chemistry II | 5 |
| KIN 3 | First Aid and CPR | 3 |
| KIN 5 | Advanced First Aid/CPR/Emergency Response | 3 |
| KIN 17 | Introduction to Kinesiology | 3 |
| KIN 19 | Introduction to Care/Prevention of Activity/ Sports -Related Injuries | 3 |
| KIN 34 | Fitness for Living | 3 |
| MATH 110 | Elementary Statistics | 3 |
| PSYC 10 | Statistics for the Behavioral Sciences | 4 |
| MATH 130 | College Algebra | 4 |
| MATH 150 | Trigonometry | 3 |
| MICR 1 | Principles of Microbiology | 5 |
| MICR 22 | Microbiology | 4 |
| PHYS 1 | Physics | 4 |
| PHYS 2AG | General Physics | 4 |
| PHYS 2BG | General Physics | 4 |
| PHYS 6A | General Physics with Calculus | 5 |
| PHYS 6B | General Physics with Calculus | 5 |
| PHYS 4A | Engineering Physics | 5 |
| PHYS 4C | Engineering Physics | 5 |
| PSYC 1A | Introduction to Psychology | 3 |
| | | |

General Education Patterns

Intersegmental General Education Transfer Curriculum (http:// www.mtsac.edu/transfer/ge_sheets/IGETC.pdf) (UC/CSU) California State University General Education (http://www.mtsac.edu/ transfer/ge_sheets/CSUGE.pdf) (CSU) 204 Kinesiology Transfer Program of Study

TRANSFERRING TO 4-YEAR INSTITUTIONS

Advanced Placement examinations may be incorporated into certification of completion of CSU/UC General Education-Breadth requirements by any participating institution. Students must have scored 3, 4, or 5 on an Advanced Placement examination listed on the table to receive the credit indicated. All CSU/UC campuses will accept the minimum units shown on the table toward fulfillment of the designated General Education-Breadth area if the examination is included in a full or subject-area certification; individual CSU/UC campuses may choose to accept more units than those specified towards completion of General Education-Breadth requirements. The CSU/UC campus to which the student is transferring determines the total number of units awarded for successful completion of an Advanced Placement examination and the applicability of the examination to other graduation. A table that lists how Advanced Placement is accepted for Mt. San Antonio College General Education is available in the Academic Policies and Requirements section of this catalog.

College Credit for Advanced Placement (AP) Tests

| Exam | CSU GE Breadth Units | CSU Units | IGETC Units | UC Units |
|---|-----------------------------------|------------|-------------------------------------|---------------------------|
| Art History | 3 semester (Area C1 or C2) | 6 semester | 3 semester (Area 3A or 3B) | 8 quarter/5.3 semester |
| Biology | 4 semester (Area B2 and B3) | 6 semester | 4 semester (Area 5B with lab) | 8 quarter/5.3 semester |
| Calculus AB ^{1,} 8, 9 | 3 semester (Area B4) | 3 semester | 3 semester (Area 2A) | 4 quarter/2.7 semester |
| Calculus BC ^{1,} 8, 9 | 3 semester (Area B4) | 6 semester | 3 semester (Area 2A) | 8 quarter/5.3 semester |
| Chemistry ² | 4 semester (Area B1 and B3) | 6 semester | 4 semester (Area 5A with lab) | 8 quarter/5.3 semester |
| Chinese Language and Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Computer Science A ^{1, 8} | N/A | 3 semester | N/A | 2 quarter/1.3 semester |
| Computer Science AB ^{1,} ⁸ | N/A | 6 semester | N/A | 4 quarter/2.7 semester |
| Economics - Macroeconom | 3 semester ii@area D2) | 3 semester | 3 semester (Area 4B) | 4 quarter/2.7 semester |
| Economics - Microeconomi | 3 semester i (Area D2) | 3 semester | 3 semester (Area 4B) | 4 quarter/2.7 semester |
| English - English Language and Composition 8 | 3 semester (Area A2) | 6 semester | 3 semester (Area 1A) | 8 quarter/5.3 semester |
| English Literature and Composition 8 | 6 semester (Area A2 and C2) | 6 semester | 3 semester (Area 1A or 3B) | 8 quarter/5.3 semester |

| Environmenta Science ³ | l 4 semester (Area B1 and B3) | 4 semester | 3 semester (Area 5A with lab) | 4 quarter/2.7 semester |
|--|---|------------|-------------------------------------|---------------------------|
| French Language ⁴ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| French Language and Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| French Literature ⁵ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| German Language ⁴ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| German Language and Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Government & Politics - Comparative | 3 semester (Area D8) | 3 semester | 3 semester (Area 4H) | 4 quarter/2.7 semester |
| Government & Politics - U.S. | | 3 semester | 3 semester (Area 4H) | 4 quarter/2.7 semester |
| History - European | 3 semester (Area C2 or D6) | 6 semester | 3 semester (Area 3B or 4F) | 8 quarter/5.3 semester |
| History - U.S. | 3 semester (Area C2 or D6 and US 1) | 6 semester | 3 semester (Area 3B or 4F) | 8 quarter/5.3 semester |
| History - World | 3 semester (Area C2 or D6) | 6 semester | 3 semester (Area 3B or 4F) | 8 quarter/5.3 semester |
| Human Geography | 3 semester (Area D5) | 3 semester | 3 semester (Area 4E) | 4 quarter/2.7 semester |
| Italian Language and Culture ⁶ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Japanese Language and Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Latin | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Latin - Vergil | 3 semester (Area C2) | 3 semester | 3 semester (Area 3B and 6A) | 4 quarter/2.7 semester |
| Latin - Literature ⁵ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 4 quarter/2.7 semester |
| Music Theory 5, 8, 10 | 3 semester (Area C1) | 6 semester | N/A | 8 quarter/5.3 semester |
| Physics B ^{7, 8} | 4 semester (Area B1 and B3) | 6 semester | 4 semester (Area 5A with lab) | 8 quarter/5.3 semester |
| Physics C - Mechanics ^{7,} ⁸ | 4 semester (Area B1 and B3) | 4 semester | 3 semester (Area 5A with lab) | 4 quarter/2.7 semester |
| | | | | |

| Physics C - Magnetism ^{7,} 8 | 4 semester (Area B1 and B3) | 4 semester | 3 semester (Area 5A with lab) | 4 quarter/2.7 semester |
|---|-----------------------------------|------------|-------------------------------------|---------------------------|
| Physics 1 ⁷ | 4 semester (Area B1 and B3) | 4 semester | N/A | |
| Physics 2 ⁷ | 4 semester (Area B1 and B3) | 4 semester | N/A | |
| Psychology | 3 semester (Area D9) | 3 semester | 3 semester (Area 4L) | 4 quarter/2.7 semester |
| Seminar | N/A | 3 semester | N/A | |
| Spanish Language ⁴ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Spanish Language and Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Spanish Literature ⁴ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Spanish Literature and Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter/5.3 semester |
| Statistics | 3 semester (Area B4) | 3 semester | 3 semester (Area 2) | 4 quarter/2.7 semester |
| Studio Art - 2D Design ⁸ | N/A | 3 semester | N/A | 8 quarter/5.3 semester |
| Studio Art - 3D Design ⁸ | N/A | 3 semester | N/A | 8 quarter/5.3 semester |
| Studio Art - Drawing ⁸ | N/A | 3 semester | N/A | 8 quarter/5.3 semester |

CSU/UC Cross Enrollment

California resident students at Mt. San Antonio College may enroll in one undergraduate course per term at a participating CSU or UC campus without formal admission and without payment of state university fees/ tuition. To be eligible for cross-enrollment, students must:

- · have completed at least one term at Mt. SAC;
- · have at least a 2.0 GPA in all coursework completed;
- have satisfied prerequisite(s) of the class in which they plan to enroll at CSU/UC;
- · be enrolled in at least six units at Mt. SAC;
- · and have paid their registration fees.

To apply for CSU/UC Cross Enrollment, students must complete the CSU/ UC Cross Enrollment application. The form is available in the Transfer Center and online (Transfer (http://transfer.mtsac.edu)).

California Independent Colleges and Universities

California's fully-accredited independent colleges and universities provide many options at the undergraduate, graduate, and professional levels for students planning to continue their education beyond the community college. Admission requirements vary and are listed in the catalogs of the various universities and colleges. For more information about California Independent Colleges and Universities, visit college/university websites, www.aiccu.edu (http:// www.aiccu.edu), or Mt. SAC Transfer Services.

Out-of-State Colleges and Universities

Students may also consider transferring to colleges and universities in other states. Admission requirements vary by school. For more information, visit college/university websites or Mt. SAC Transfer Services.

Upper Division Transfer Admission Requirements

Students are eligible for admission with 60 or more transferable semester units (90 quarter units) if they:

- Have a college grade point average of 2.00 or better in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e. are eligible to re-enroll.
- Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of courses equivalent to general education requirements with a grade of "C" or better. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units (4 quarter units) required in college-level mathematics.
- Students are advised to complete major preparation classes prior to transfer. For some majors/campuses, these courses may be required for admission. Consult university websites, counselors/ advisors, and visit Mt. SAC Transfer Services for more information. Also, visit ASSIST (http://www.assist.org) to find community college courses that fulfill major requirements.

Note: These are the minimum admission standards. Many campuses and majors are impacted (more competitive) and may require a higher GPA and/or completion of specific courses for admission.

Lower Division Transfer Admission Requirements

Please be aware that most CSU campuses do not admit lower-division transfer students. California residents may be eligible for CSU admission with fewer than 60 transferable semester units (90 quarter units) if they:

- Have a college grade point average of 2.00 or better in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e., eligible to re-enroll.
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies from high school if the student did not complete the 15unit pattern of college preparatory subjects.
- · Meet the eligibility index required of a freshman.

Some campuses may require lower-division transfer students to have completed English composition and general education mathematics prior to transfer. Contact the transfer campus of choice to determine whether there are admission limits on the number of lower-division transfer students.

California State University General Education Requirements 2017-18

The requirements listed below are for the 2017-2018 academic year and are based upon information available at the time of catalog publication.

Forty-eight units of general education are required to graduate from campuses of the CSU system. A maximum of 39 units may be certified by community colleges; nine units must be taken at the upper division level. Acceptable courses are grouped in five areas, A through E. A maximum of 30 units may be certified from Areas B through D collectively. The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet General Education-Breadth Requirements will be honored if they are on the list during the year taken.

The following program is structured so that a student who completes the program will be assured of properly meeting the General Education-Breadth Requirements of CSU. Area A and Mathematics must be completed with a minimum grade of "C." Students who have attended other colleges are urged to consult with a counselor or educational advisor for advice on satisfying General Education-Breadth Requirements.

Students beginning Fall 2017 must follow 2017-2018 CSU GE–Breadth requirements. Courses are approved for the academic year in which they were completed.

Area A: The English Language and Critical Thinking

| Code | Title | Units | | | |
|---|------------|-------|--|--|--|
| Choose one course from each group: | | | | | |
| A-1: Oral Communication | | | | | |
| SPCH 1A (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH %201A) | | | | | |
| SPCH 1AH (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH %201AH) | | | | | |
| SPCH 2 (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH%202) | 2018/ | | | | |
| SPCH 8 (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH%208) | 21 | | | | |
| SPCH 8H (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH %208H) | 2018/ | | | | |
| A-2: Written Com | munication | | | | |

ENGL 1A **Freshman Composition** (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=ENGL %201A) ENGL 1AH Freshman Composition - Honors (http:// catalog.mtsac. archive/2017-2 search/? P=ENGL %201AH) A-3: Critical Thinking ENGL 1C Critical Thinking and Writing (http:// catalog.mtsac.(archive/2017-2 search/? P=ENGL %201C) ENGL 1CH **Critical Thinking and Writing - Honors** (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=ENGL %201CH) PHIL 3 (http:// Introduction to Logic catalog.mtsac. archive/2017-2 search/? P=PHIL%203) PHIL 3H Introduction to Logic - Honors (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=PHIL %203H) PHIL 8 (http:// Critical Thinking catalog.mtsac. archive/2017-2 search/? P=PHIL%208) PHIL 9 (http:// Critical Thinking and Writing catalog.mtsac.edu/ archive/2017-2018/ search/? P=PHIL%209) PHIL 9H Critical Thinking and Writing - Honors (http:// catalog.mtsac. archive/2017-2 search/? P=PHIL %209H)

| PSYC 5 (http:// catalog.mtsac. archive/2017-2 search/? P=PSYC%205) | | | ASTR 8 (http:// catalog.mtsac. archive/2017-2 search/? P=ASTR%208) | |
|---|---|-------|---|-----------------------------------|
| READ 100 (http:// catalog.mtsac. archive/2017-2 search/? P=READ %20100) | | | CHEM 10 (http:// catalog.mtsac. archive/2017-2 search/? P=CHEM %2010) | |
| SPCH 20 (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH %2020) | | | CHEM 20 (http:// catalog.mtsac. archive/2017-2 search/? P=CHEM %2020) | |
| SPCH 20H (http:// catalog.mtsac. archive/2017-2 search/? P=SPCH %2020H) | | | CHEM 40 (http:// catalog.mtsac. archive/2017-2 search/? P=CHEM %2040) | |
| Area B: The Pl | nysical Universe & Life | Units | CHEM 50 (http:// catalog.mtsac. | General Chemistry I |
| Choose one cours must be included ASTR 5 | e from each group. Also, one lab course in one of the science groups. Introduction to Astronomy | 9 | archive/2017-2 search/? P=CHEM %2050) | |
| (http:// catalog.mtsac. archive/2017-2 search/? P=ASTR%205) | I | | CHEM 50H (http:// catalog.mtsac. archive/2017-2 search/? | |
| (http:// catalog.mtsac. | | | P=CHEM %2050H) | General Chemistry II ¹ |
| archive/2017-2 search/? P=ASTR %205H) | 018/ | | CHEM 51 (http:// catalog.mtsac. archive/2017-2 | 1 |
| ASTR 5L (http:// catalog.mtsac. | Astronomical Observing Laboratory ¹ | | search/? P=CHEM %2051) | |
| archive/2017-2 search/? P=ASTR %205L) | 1 | | CHEM 51H (http:// catalog.mtsac. archive/2017-2 search/? | |
| ASTR 7 (http:// catalog.mtsac. archive/2017-2 search/? P=ASTR%207) | | | searcn/? P=CHEM %2051H) | |

GEOG 1 GEOL 9 Physical Geography **Environmental Geology** (http:// (http:// catalog.mtsac. catalog.mtsac.edu/ archive/2017-20 archive/2017-2018/ search/? search/? P=GEOG%201) P=GEOL%209) GEOG 1H Physical Geography - Honors GEOL 10 Natural Disasters (http:// (http:// catalog.mtsac.edu/ catalog.mtsac.(archive/2017-2018/ archive/2017-2 search/? search/? P=GEOG P=GEOL %201H) %2010) GEOG 1L Physical Geography Laboratory¹ METO 3 Weather and the Atmospheric Environment (http:// (http:// catalog.mtsac.(catalog.mtsac.edu/ archive/2017-20 archive/2017-2018/ search/? search/? P=GEOG P=MET0%203) %201L) METO 3L Weather and Atmospheric Environment GEOG 1LH Physical Geography Laboratory - Honors¹ Laboratory¹ (http:// (http:// catalog.mtsac. catalog.mtsac.edu/ archive/2017-2 archive/2017-2018/ search/? search/? P=METO P=GEOG %203L) %201LH) OCEA 10 Introduction to Oceanography GEOL 1 Physical Geology (http:// (http:// catalog.mtsac.edu/ archive/2017-2018/ catalog.mtsac. archive/2017-20 search/? search/? P=0CEA P=GEOL%201) %2010) Introduction to Oceanography - Honors GEOL 7 Geology of California OCEA 10H (http:// (http:// catalog.mtsac.edu/ catalog.mtsac. archive/2017-2018/ archive/2017-2 search/? search/? P=OCEA P=GEOL%207) %2010H) GEOL 8 Earth Science Introduction to Oceanography Laboratory OCEA 10L (http:// catalog.mtsac.e (http:// archive/2017-20 catalog.mtsac.edu/ search/? archive/2017-2018/ search/? P=GEOL%208) P=0CEA GEOL 8H Earth Science - Honors %2010L) (http:// catalog.mtsac.edu/ PHSC 3 Energy Science archive/2017-2018/ (http:// search/? catalog.mtsac. P=GEOL archive/2017-2 %208H) search/? P=PHSC%203) Earth Science Laboratory¹ GEOL 8L PHSC 9 Physical Science ¹ (http:// catalog.mtsac.((http:// archive/2017-20 catalog.mtsac.edu/ search/? archive/2017-2018/ P=GEOL search/? P=PHSC%209) %208L)

| PHYS 1 Physics ¹ | AGOR 1 Horticultural Science |
|---|---|
| (http:// | (http:// |
| catalog.mtsac.e | catalog.mtsac.edu/ |
| archive/2017-2 | archive/2017-2018/ |
| search/? | search/? |
| P=PHYS%201) | P=AGOR%201) |
| PHYS 2AG General Physics ¹ | ANAT 10A Introductory Human Anatomy ¹ |
| (http:// | (http:// |
| catalog.mtsac.edu/ | catalog.mtsac.(|
| archive/2017-2018/ | archive/2017-2) |
| search/? | search/? |
| P=PHYS | P=ANAT |
| %202AG) | %2010A) |
| PHYS 2BG General Physics ¹ | ANAT 10B Introductory Human Physiology ¹ |
| (http:// | (http:// |
| catalog.mtsac.(| catalog.mtsac.edu/ |
| archive/2017-2) | archive/2017-2018/ |
| search/? | search/? |
| P=PHYS | P=ANAT |
| %202BG) | %2010B) |
| PHYS 4A Engineering Physics ¹ | ANAT 35 Human Anatomy ¹ |
| (http:// | (http:// |
| catalog.mtsac.edu/ | catalog.mtsac.u |
| archive/2017-2018/ | archive/2017-2 |
| search/? | search/? |
| P=PHYS | P=ANAT |
| %204A) | %2035) |
| PHYS 4B Engineering Physics ¹ | ANAT 36 Human Physiology ¹ |
| (http:// | (http:// |
| catalog.mtsac.(| catalog.mtsac.edu/ |
| archive/2017-2) | archive/2017-2018/ |
| search/? | search/? |
| P=PHYS | P=ANAT |
| %204B) | %2036) |
| PHYS 4C Engineering Physics ¹ | ANTH 1 Biological Anthropology |
| (http:// | (http:// |
| catalog.mtsac.edu/ | catalog.mtsac. |
| archive/2017-2018/ | archive/2017-2 |
| search/? | search/? |
| P=PHYS | P=ANTH%201) |
| %204C) PHYS 6A General Physics with Calculus (http:// catalog.mtsac.(archive/2017-2) search/? P=PHYS %206A) | ANTH 1H Biological Anthropology - Honors ¹ (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=ANTH %201H) |
| PHYS 6B General Physics with Calculus (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=PHYS | ANTH 1L Biological Anthropology Laboratory ¹ (http:// catalog.mtsac.(archive/2017-2) search/? P=ANTH %201L) |
| %206B) 3-2: Life Sciences | BIOL 1 (http:// General Biology ¹ catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL%201) |

BIOL 2 (http:// Plant and Animal Biology ¹ catalog.mtsac. archive/2017-20 search/? P=BIOL%202) BIOL 3 (http:// Ecology and Field Biology¹ catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL%203) BIOL 4 (http:// Biology for Majors ¹ catalog.mtsac. archive/2017-20 search/? P=BIOL%204) Biology for Majors - Honors¹ BIOL 4H (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL %204H) BIOL 6 (http:// Humans and the Environment catalog.mtsac.(archive/2017-20 search/? P=BIOL%206) Humans and the Environment Laboratory ¹ BIOL 6L (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL%206L) BIOL 8 (http:// Cell and Molecular Biology¹ catalog.mtsac. archive/2017-20 search/? P=BIOL%208) BIOL 17 Neurobiology and Behavior (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL%2017) BIOL 20 Marine Biology (http:// catalog.mtsac. archive/2017-20 search/? P=BIOL%2020) Marine Biology Laboratory BIOL 21 (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL%2021)

BIOL 25 **Conservation Biology** (http:// catalog.mtsac.(archive/2017-2 search/? P=BIOL%2025) BIOL 34 Fundamentals of Genetics (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=BIOL%2034) BIOL 34L Fundamentals of Genetics Lab¹ (http:// catalog.mtsac. archive/2017-2 search/? P=BIOL %2034L) MICR 1 (http:// Principles of Microbiology catalog.mtsac.edu/ archive/2017-2018/ search/? P=MICR%201) MICR 22 Microbiology (http:// catalog.mtsac. archive/2017-2 search/? P=MICR %2022) PSYC 1B **Biological Psychology** (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=PSYC %201B) B-3: Lab Science This requirement is met by taking one of the lab courses above. Lab must be a corresponding section to the lecture course taken.¹ **B-4: Mathematics** Select at least one course from the following: 3-5 BUSC 17 **Applied Business Statistics** (http:// catalog.mtsac. archive/2017-2 search/? P=BUSC %2017) **MATH 100** Survey of College Mathematics (http:// catalog.mtsac.edu/ archive/2017-2018/ search/? P=MATH %20100)

| MATH 110 (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20110) | | MATH 180 (http:// catalog.mtsac. archive/2017-2 search/? P=MATH %20180) | | |
|--|-------|---|--|-------|
| MATH 110H (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20110H) | | MATH 181 (http:// catalog.mtsac. archive/2017-2 search/? P=MATH %20181) | | |
| MATH 110S (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20110S) | | MATH 260 (http:// catalog.mtsac. archive/2017-2 search/? P=MATH %20260) | | |
| MATH 120 (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20120) | | MATH 280 (http:// catalog.mtsac. archive/2017-2 search/? P=MATH %20280) | | |
| MATH 130 (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20130) | | MATH 285 (http:// catalog.mtsac. archive/2017-2 search/? P=MATH %20285) | | |
| MATH 140 (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20140) | | MATH 290 (http:// catalog.mtsac. archive/2017-2 search/? P=MATH %20290) | | |
| MATH 150 (http:// catalog.mtsac archive/2017-2 search/? P=MATH %20150) | | PSYC 10 (http:// catalog.mtsac. archive/2017-2 search/? P=PSYC %2010) | | |
| MATH 160 (http:// catalog.mtsac | | Area C: Arts, L Languages | iterature, Philosophy and Foreign | |
| archive/2017-2 | 2018/ | Course Prefix | Course Name | Units |
| search/? P=MATH %20160) | | and one course fr | | 9 |
| | | AHIS 1 or ARTB 1 | Understanding the Visual Arts Understanding the Visual Arts | |
| | | | J | |

| AHIS 3 | History of Women and Gender in Art |
|--------|------------------------------------|

| AHIS 3H | History of Women and Gender in Art - Honors | A |
|-------------------|---|---------|
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | С |
| AHIS 4H | History of Western Art: Prehistoric Through Gothic - Honors | C C |
| AHIS 5 | History of Western Art: Renaissance | C E |
| AHIS 5H | Through Modern History of Western Art: Renaissance | E |
| ALUIO C | Through Modern - Honors | F |
| AHIS 6 | History of Modern Art | F |
| AHIS 6H | History of Modern Art - Honors | F |
| AHIS 8 | History of Medieval Art and Architecture | F |
| AHIS 9 AHIS 10 | History of Asian Art and Architecture A History of Greek and Roman Art and Architecture | F |
| AHIS 11 | History of African, Oceanic, and Native American Art | G |
| AHIS 12 | History of Precolumbian Art and | Н |
| | Architecture ¹ | Н |
| AHIS 12H | History of Precolumbian Art and Architecture - Honors ¹ | Н |
| AHIS 14 | Rome: The Ancient City | Н |
| AHIS 15 | Culture and Art of Pompeii | |
| ARCH 250 | World Architecture I | Н |
| ARCH 251 | World Architecture II | |
| ARTB 14 | Basic Studio Arts | Н |
| ARTD 15A | Drawing: Beginning | Н |
| ARTD 20 | Design: Two-Dimensional | |
| ARTD 25A | Beginning Painting I | Н |
| ARTG 20 | Art, Artists and Society | Н |
| ARTS 22 | Design: Three-Dimensional | |
| ARTS 30A | Ceramics: Beginning I | Н |
| ARTS 40A | Sculpture: Beginning | Н |
| DN-T 20 | History and Appreciation of Dance | Н |
| ID 14 | History of Furniture and Decorative Arts | Н |
| MUS 7 | Fundamentals of Music | Н |
| MUS 11A | Music Literature Survey | Н |
| MUS 11B | Music Literature Survey | н |
| MUS 12 | History of Jazz | Н |
| MUS 13 | Introduction to Music Appreciation | Н |
| MUS 13H | Introduction to Music Appreciation - Honors | н |
| MUS 14A | World Music | ח רו |
| MUS 14B | American Folk Music | |
| MUS 15 | Rock Music History and Appreciation | 1 |
| MUS 15H | Rock Music History and Appreciation - Honors | П |
| PHOT 15 | History of Photography | רו |
| SPCH 4 | Performance of Literature | J |
| THTR 9 | Introduction to Theater Arts | J |
| THTR 10 | History of Theater Arts | J |
| THTR 11 | Principles of Acting I | J |
| -2: Humanities | | J |
| | | |

| ARAB 1 | Elementary Arabic |
|----------|---|
| ARAB 2 | Continuing Elementary Arabic |
| CHIN 1 | Elementary Chinese |
| CHIN 2 | Continuing Elementary Chinese |
| CHIN 3 | Intermediate Chinese |
| CHIN 4 | Continuing Intermediate Chinese |
| ENGL 1B | English - Introduction to Literary Types |
| ENGL 1BH | English - Introduction to Literary Types - Honors |
| FRCH 1 | Elementary French |
| FRCH 2 | Continuing Elementary French |
| FRCH 3 | Intermediate French |
| FRCH 4 | Continuing Intermediate French |
| FRCH 60 | French Culture Through Cinema |
| GERM 1 | Elementary German |
| GERM 2 | Continuing Elementary German |
| GERM 3 | Intermediate German |
| HIST 1 | History of the United States ¹ |
| HIST 3 | World History: Prehistoric to Early Modern ¹ |
| HIST 3H | World History: Prehistoric to Early Modern - Honors ¹ |
| HIST 4 | World History: Early Modern to the Present |
| HIST 4H | World History: Early Modern to the Present - Honors ¹ |
| HIST 7 | History of the United States to 1877 ¹ |
| HIST 7H | History of the United States to 1877 - Honors ¹ |
| HIST 8 | History of the United States from 1865 ¹ |
| HIST 8H | History of the United States from 1865 - Honors ¹ |
| HIST 10 | History of Premodern Asia ¹ |
| HIST 11 | History of Modern Asia ¹ |
| HIST 16 | The Wild West - A History, 1800-1890 ¹ |
| HIST 19 | History of Mexico ¹ |
| HIST 30 | History of the African American 1619-1877 |
| HIST 31 | History of the African American ¹ |
| HIST 35 | History of Africa ¹ |
| HIST 36 | Women in American History ¹ |
| HIST 39 | California History |
| HIST 40 | History of the Mexican American ¹ |
| HUMA 1 | The Humanities |
| ITAL 1 | Elementary Italian |
| ITAL 2 | Continuing Elementary Italian |
| ITAL 3 | Intermediate Italian |
| ITAL 4 | Continuing Intermediate Italian |
| ITAL 60 | Italian Culture Through Cinema |
| JAPN 1 | Elementary Japanese |
| JAPN 2 | Continuing Elementary Japanese |
| JAPN 3 | Intermediate Japanese |
| JAPN 4 | Continuing Intermediate Japanese |
| JAPN 5 | Advanced Japanese |
| | |

Global Perspective

| | - 1 | | |
|-----------------|--|--------------------|---|
| LATN 1 | Elementary Latin | AHIS 9 | History of Asian Art and Architecture ¹ |
| LATN 2 | Continuing Elementary Latin | AHIS 12 | History of Precolumbian Art and Architecture ¹ |
| LIT 1 | Early American Literature | AHIS 12H | |
| LIT 2 | Modern American Literature | AHIS 12H | History of Precolumbian Art and Architecture - Honors ¹ |
| LIT 3 | Multicultural American Literature | AHIS 15 | Culture and Art of Pompeii ¹ |
| LIT 6A | Survey of English Literature | ANTH 3 | · |
| LIT 6B | Survey of English Literature | ANTH 3 | Archaeology |
| LIT 10 | Survey of Shakespeare | ANTH 4 ANTH 5 | Archaeology |
| LIT 11A | World Literature to 1650 | | Principles of Cultural Anthropology |
| LIT 11B | World Literature from 1650 | ANTH 22 | General Cultural Anthropology |
| LIT 14 | Introduction to Modern Poetry | ANTH 30 | The Native American |
| LIT 15 | Introduction to Cinema | BUSC 1A | Principles of Economics - Macroeconomics |
| LIT 20 | African American Literature | BUSC 1AH | • |
| LIT 25 | Contemporary Mexican American Literature | DU00 1D | - Honors |
| LIT 36 | Introduction to Mythology | BUSC 1B | Principles of Economics - Microeconomics |
| LIT 40 | Children's Literature | BUSC 1BH | Principles of Economics - Microeconomics - Honors |
| LIT 46 | The Bible As Literature: Old Testament | CHLD 1 | |
| LIT 47 | The Bible As Literature: New Testament | CHLD 1 CHLD 10 | Child, Family, School and Community Child Growth and Lifespan Development ¹ |
| PHIL 5 | Introduction to Philosophy | | |
| PHIL 5H | Introduction to Philosophy - Honors | CHLD 10H | Child Growth and Lifespan Development- Honors ¹ |
| PHIL 12 | Introduction to Ethics | CHLD 11 | Child and Adolescent Development ¹ |
| PHIL 12H | Introduction to Ethics - Honors | | |
| PHIL 15 | Major World Religions | FASH 14 | Dress, Culture, and Identity |
| PHIL 15H | Major World Religions - Honors | GEOG 2 | Human Geography |
| PHIL 20A | History of Ancient Philosophy | GEOG 2H | Human Geography - Honors |
| PHIL 20AH | History of Ancient Philosophy - Honors | GEOG 5 | World Regional Geography |
| PHIL 20B | History of Modern Philosophy | GEOG 8 | The Urban World |
| PHIL 20BH | History of Modern Philosophy - Honors | GEOG 30 | Geography of California |
| POLI 5 | Political Theory I - Ancient to Contemporary | GEOG 30H | 5 1 5 |
| FOLIS | 1 | HIST 1 | History of the United States ¹ |
| POLI 7 | Political Theory II - Early Modern to | HIST 3 | World History: Prehistoric to Early Modern |
| | Contemporary ¹ | HIST 3H | World History: Prehistoric to Early Modern - Honors ¹ |
| SIGN 101 | American Sign Language 1 | HIST 4 | World History: Early Modern to the Present |
| SIGN 101H | American Sign Language 1 - Honors | | |
| SIGN 102 | American Sign Language 2 | HIST 4H | World History: Early Modern to the Present |
| SIGN 103 | American Sign Language 3 | | - Honors ¹ |
| SIGN 104 | American Sign Language 4 | HIST 7 | History of the United States to 1877 ¹ |
| SIGN 202 | American Deaf Culture | HIST 7H | History of the United States to 1877 - |
| SPAN 1 | Elementary Spanish | | Honors ¹ |
| SPAN 2 | Continuing Elementary Spanish | HIST 8 | History of the United States from 1865 ¹ |
| SPAN 3 | Intermediate Spanish | HIST 8H | History of the United States from 1865 - Honors ¹ |
| SPAN 4 | Continuing Intermediate Spanish | | |
| SPAN 1S | Spanish for the Spanish Speaking | HIST 10 | History of Premodern Asia |
| SPAN 2S | Continuing Spanish for the Spanish | HIST 11 | History of Modern Asia |
| | Speaking | HIST 16 | The Wild West - A History, 1800-1890 |
| | al, Political, and Economic Institutions an storical Background | HIST 19 HIST 30 | History of Mexico ¹ History of the African American 1619-1877 1 |
| ourse Prefix | • | | History of the African American ¹ |
| | | hits HIST 31 | |
| | um of nine units with courses from at least | 9 HIST 35 | History of Africa ¹ |
| vo disciplines: | Food Production Land Line and Delitics | HIST 36 | Women in American History |
| AGAG 1 | Food Production, Land Use, and Politics - A Global Perspective | HIST 39 | California History ¹ |
| | | | |

HIST 40

History of the Mexican American¹

| HIST 44 | History of Native Americans ¹ |
|----------|--|
| JOUR 100 | Introduction to Mass Media |
| JOUR 107 | Race, Culture, Sex, and Mass Media Images |
| POLI 1 | Introduction to American Government and Politics |
| POLI 1H | Introduction to American Government and Politics - Honors |
| POLI 2 | Comparative Politics |
| POLI 5 | Political Theory I - Ancient to Contemporary |
| POLI 7 | Political Theory II - Early Modern to Contemporary ¹ |
| POLI 9 | Introduction to International Relations |
| POLI 10 | Environmental Politics |
| POLI 25 | Latino Politics in the United States ¹ |
| POLI 35 | African American Politics ¹ |
| PSYC 1A | Introduction to Psychology |
| PSYC 1AH | Introduction to Psychology - Honors |
| PSYC 14 | Developmental Psychology ¹ |
| PSYC 14H | Developmental Psychology - Honors ¹ |
| PSYC 15 | Introduction to Child Psychology ¹ |
| PSYC 19 | Abnormal Psychology |
| PSYC 25 | The Psychology of Women ¹ |
| R-TV 01 | Introduction to Electronic Media |
| SOC 1 | Sociology |
| SOC 1H | Sociology - Honors |
| SOC 2 | Contemporary Social Problems |
| SOC 2H | Contemporary Social Problems - Honors |
| SOC 4 | Introduction to Gerontology |
| SOC 5 | Introduction to Criminology |
| SOC 5H | Introduction to Criminology - Honors |
| SOC 14 | Marriage and the Family |
| SOC 14H | Marriage and the Family - Honors |
| SOC 15 | Child Development ¹ |
| SOC 20 | Sociology of Ethnic Relations ¹ |
| SOC 20H | Sociology of Ethnic Relations - Honors ¹ |
| SOC 20 | Sociology of Ethnic Relations ¹ |
| SOC 20H | Sociology of Ethnic Relations - Honors ¹ |
| SPCH 7 | Intercultural Communication |
| SPCH 7H | Intercultural Communication - Honors |
| SPCH 26 | Interpersonal Communication ¹ |
| SPCH 26H | Interpersonal Communication - Honors ¹ |
| SPCH 30 | Gateway to Communication Studies |
| | |

Area E: Lifelong Understanding & Self Development

Course Prefix Course Name

| Choose a at least one course 3 | | | |
|--------------------------------|--|--|--|
| AD 3 | Chemical Dependency: Intervention, Treatment and Recovery | | |
| BIOL 5 | Contemporary Health Issues | | |
| BIOL 13 | Human Reproduction, Development and Aging | | |
| BIOL 15 | Human Sexuality | | |

| BIOL 15H | Human Sexuality - Honors |
|----------|---|
| CHLD 10 | Child Growth and Lifespan Development ¹ |
| CHLD 10H | Child Growth and Lifespan Development- Honors ¹ |
| CHLD 11 | Child and Adolescent Development ¹ |
| COUN 5 | Career and Life Planning |
| FCS 41 | Life Management |
| KIN 34 | Fitness for Living |
| LEAD 55 | Exploring Leadership |
| NF 10 | Nutrition for Health and Wellness |
| NF 12 | Sports Nutrition |
| NF 25 | Introduction to Nutrition Science |
| NF 25H | Introduction to Nutrition Science - Honors |
| NF 28 | Cultural and Ethnic Foods |
| PSYC14 | Developmental Psychology ¹ |
| PSYC 14H | Developmental Psychology - Honors ¹ |
| PSYC 15 | Introduction to Child Psychology ¹ |
| PSYC 25 | The Psychology of Women ¹ |
| PSYC 26 | Psychology of Sexuality |
| PSYC 33 | Psychology for Effective Living |
| PUBH 24 | Introduction to Public Health |
| SOC 15 | Child Development ¹ |
| SPCH 26 | Interpersonal Communication ¹ |
| SPCH 26H | Interpersonal Communication - Honors ¹ |
| | |

¹ Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

Notes

Units

- Upper division transfer students (60-70 semester baccalaureate units), will need to have at least 30 semester units of general education. Within those 30 units, Area A (9) semester units and Mathematics (3) semester units must be completed with grades of "C" or better.
- 2. CSULA transfer students are advised to complete or as part of the Area A requirements. CSULA requires completion of ENGL 102 (or) as a prerequisite to UNIV 400 (Writing Proficiency Examination).
- 3. Courses on this list have been approved by the CSU Office of the Chancellor for Fall 2017 and beyond. If a course was completed prior to approval, it cannot be certified for CSU General Education–Breadth requirements.
- 4. Some majors at CSU do not allow double counting of major preparation courses and general education requirements. Students are advised to consult with a counselor or advisor to determine if courses can be double counted.
- 5. Some majors require specific general education courses. Students planning to transfer are advised to plan their schedules carefully in order to maintain progress.

CSU American Institutions & U.S. History Graduation Requirement

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| Option 1 | | |
| HIST 7 | History of the United States to 1877 | |
| or HIST 7H | History of the United States to 1877 - Honors | |
| Plus | | |

HIST 8 History of the United States from 1865

or HIST 8H History of the United States from 1865 - Honors

If Option 1 is selected, DO NOT select another D6 course as your third Area D course.

Option 2

Choose one course from U.S. History plus one course from American Institutions:

United States History

| onnea otateo m | story |
|------------------|--|
| HIST 1 | History of the United States |
| HIST 7 | History of the United States to 1877 |
| HIST 7H | History of the United States to 1877 - Honors |
| HIST 8 | History of the United States from 1865 |
| HIST 8H | History of the United States from 1865 - Honors |
| HIST 30 | History of the African American 1619-1877 |
| HIST 31 | History of the African American |
| HIST 36 | Women in American History |
| HIST 40 | History of the Mexican American |
| American Institu | tions |
| POLI 1 | Introduction to American Government and Politics |
| POLI 1H | Introduction to American Government and Politics - Honors |
| POLI 25 | Latino Politics in the United States |
| POLI 35 | African American Politics |

The two courses from Option 1 or Option 2 may be used as part of the 9 units for Area D.

The University of California

Upper Division Transfer Admission Requirements

The vast majority of transfer students come to UC at the junior level from California community colleges. To be considered for UC admission as a junior, you must fulfill both of the following:

- Complete 60 semester (90 quarter) units of transferable college credit with a GPA of at least 2.4 (2.8 for nonresidents). No more than 14 semester (21 quarter) units may be taken Pass/Not Pass.
- Complete the following course pattern requirements, and earn a grade of C or better in each course:
 - Two transferable college courses (3 semester or 4-5 quarter units each) in English composition
 - One transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning
 - Four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas:
 - Arts and Humanities
 - Social and Behavioral Sciences
 - · Physical and Biological Sciences

Note: Meeting these minimum requirements does not guarantee admission to the campus or major of your choice. Many campuses and majors receive more applications than they have spaces available. To be competitive, you should work toward meeting the specific requirements for the campuses and majors that interest you. Consult university websites, counselors/advisors, and visit Mt. SAC Transfer Services for more information. Also, visit www.assist.org (http://www.assist.org) to find community college courses that fulfill major requirements.

Lower Division Transfer Admission Requirements

While all UC campuses welcome a large pool of junior-level transfers, most admit only a very limited number of lower-division transfers (students with fewer than 60 units). You may establish eligibility for lower division transfer.

 If you were eligible for admission to UC when you graduated from high school, meaning you satisfied the subject, examination and scholarship requirements, you are eligible for transfer if you have a 2.0 GPA in your transferable college coursework (2.8 GPA for nonresidents). Visit the UC admissions website for more information about these requirements: www.universityofcalifornia.edu/ admissions (http://www.universityofcalifornia.edu/admissions).

If you met the scholarship requirement in high school, but did not satisfy the 15-course subject requirement, you must take transferable college courses in the missing subjects, earn a grade of C or better in each required course and have an overall 2.0 GPA in all transferable coursework to be eligible to transfer (a 2.8 GPA is required for nonresidents).

Intersegmental General Education Transfer Curriculum (IGETC) 2017-18 The requirements listed below are for the 2017-2018 academic year and are based upon information available at the time of catalog publication.

Completion of the IGETC will permit a student to transfer from Mt. SAC to a campus in either the University of California (UC) system or California State University (CSU) without the need, after transfer, to take additional lower-division general education courses to satisfy university general education requirements. It should be noted that completion of the IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill the lower-division general education requirements of UC or CSU prior to transfer. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous (i.e. Engineering, Sciences).

The requirements listed below must be completed in their entirety for full certification to the UC and CSU. For students who have completed coursework at multiple campuses, the campus of last attendance prior to transfer to UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC list of the originating campus. A minimum grade of "C" is required in each course. (A grade of "C-" is not acceptable.)

Students beginning Fall 2017 must follow 2017-2018 IGETC requirements. Courses are approved for the academic year in which they were completed.

Area1: English Communication

| Course Prefix Course Name | | Units | | |
|--|--|-------|--|--|
| Choose one cours | se from each group: | | | |
| Group A: English | Composition | | | |
| ENGL 1A | Freshman Composition | | | |
| ENGL 1AH | Freshman Composition - Honors | | | |
| Group B: Critical Thinking - Composition | | | | |
| ENGL 1C | Critical Thinking and Writing | | | |
| ENGL 1CH | Critical Thinking and Writing - Honors | | | |
| PHIL 9 | Critical Thinking and Writing | | | |
| PHIL 9H | Critical Thinking and Writing - Honors | | | |

| Group C: Oral Communication | | | | |
|-----------------------------|-------------------------------|--|--|--|
| CSU Requiremen | ts Only | | | |
| SPCH 1A | Public Speaking | | | |
| SPCH 1AH | Public Speaking - Honors | | | |
| SPCH 2 | Fundamentals of Communication | | | |

Area 2: Mathematical Concepts and Quantitative Reasoning

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| Choose one cours | se from the following: | |
| MATH 110 | Elementary Statistics | |
| MATH 110H | Elementary Statistics - Honors | |
| MATH 110S | Integrated Statistics | |
| MATH 120 | Finite Mathematics | |
| MATH 130 | College Algebra | |
| MATH 140 | Calculus for Business | |
| MATH 160 | Precalculus Mathematics | |
| MATH 180 | Calculus and Analytic Geometry | |
| MATH 181 | Calculus and Analytic Geometry | |
| MATH 260 | Linear Algebra | |
| MATH 280 | Calculus and Analytic Geometry | |
| MATH 285 | Linear Algebra and Differential Equations | |
| MATH 290 | Differential Equations | |
| PSYC 10 | Statistics for the Behavioral Sciences | |

Area 3: Arts and Humanities

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| Choose three cou | | |
| Arts group and o | ne course from the Humanities group: | |
| Arts Courses | | |
| AHIS 1 | Understanding the Visual Arts | |
| or ARTB 1 | Understanding the Visual Arts | |
| AHIS 3 | History of Women and Gender in Art | |
| AHIS 3H | History of Women and Gender in Art - Honors | |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | |
| AHIS 4H | History of Western Art: Prehistoric Through Gothic - Honors | |
| AHIS 5 | History of Western Art: Renaissance Through Modern | |
| AHIS 5H | History of Western Art: Renaissance Through Modern - Honors | |
| AHIS 6 | History of Modern Art | |
| AHIS 6H | History of Modern Art - Honors | |
| AHIS 8 | History of Medieval Art and Architecture | |
| AHIS 9 | History of Asian Art and Architecture | |
| AHIS 10 | A History of Greek and Roman Art and Architecture | |
| AHIS 11 | History of African, Oceanic, and Native American Art | |
| AHIS 12 | History of Precolumbian Art and Architecture | |
| | | |

| AHIS 12H History of Precolumbian Art and | | |
|--|--|--|
| | Architecture - Honors | |
| AHIS 14 | Rome: The Ancient City | |
| AHIS 15 | Culture and Art of Pompeii | |
| ARCH 250 | World Architecture I | |
| ARCH 251 | World Architecture II | |
| DN-T 20 | History and Appreciation of Dance | |
| MUS 11A | Music Literature Survey | |
| MUS 11B | Music Literature Survey | |
| MUS 12 | History of Jazz | |
| MUS 13 | Introduction to Music Appreciation | |
| MUS 13H | Introduction to Music Appreciation - | |
| | Honors | |
| MUS 14A | World Music | |
| MUS 14B | American Folk Music | |
| MUS 15 | Rock Music History and Appreciation | |
| MUS 15H | Rock Music History and Appreciation - | |
| | Honors | |
| THTR 10 | History of Theater Arts | |
| Humanities Cou | rses | |
| CHIN 3 | Intermediate Chinese | |
| CHIN 4 | Continuing Intermediate Chinese | |
| ENGL 1B | English - Introduction to Literary Types | |
| ENGL 1BH | English - Introduction to Literary Types - Honors | |
| FRCH 3 | Intermediate French | |
| FRCH 4 | Continuing Intermediate French | |
| FRCH 60 | French Culture Through Cinema | |
| GERM 3 | Intermediate German | |
| HIST 1 | History of the United States | |
| HIST 3 | World History: Prehistoric to Early Modern | |
| HIST 3H | World History: Prehistoric to Early Modern - Honors | |
| HIST 4 | World History: Early Modern to the Present | |
| HIST 4H | World History: Early Modern to the Present | |
| | - Honors | |
| HIST 7 | History of the United States to 1877 | |
| HIST 7H | History of the United States to 1877 - Honors | |
| HIST 8 | History of the United States from 1865 | |
| HIST 8H | History of the United States from 1865 - Honors | |
| HIST 10 | History of Premodern Asia | |
| HIST 11 | History of Modern Asia | |
| HIST 16 | The Wild West - A History, 1800-1890 ¹ | |
| HIST 19 | History of Mexico | |
| HIST 30 | History of the African American 1619-1877 | |
| HIST 31 | History of the African American | |
| HIST 35 | History of Africa | |
| HIST 36 | Women in American History | |
| HIST 39 | California History | |
| HIST 40 | History of the Mexican American | |
| HUMA 1 | The Humanities | |
| | | |

| | urses total from a minimum of two different | onita | SPCH 7H | Intercultural Communication - Honors |
|--|--|-------|-----------------|---|
| urse Prefix | Course Name | Units | SPCH 7 | Intercultural Communication |
| Area 4: Social and Behavioral Sciences | | | SOC 20H | Sociology of Ethnic Relations - Honors |
| SPAN 4 | Continuing Intermediate Spanish | | SOC 20 | Sociology of Ethnic Relations |
| SPAN 3 | Intermediate Spanish | | SOC 5H | Introduction to Criminology - Honors |
| SIGN 202 | American Deaf Culture | | SOC 5 | Introduction to Criminology |
| SIGN 104 | American Sign Language 4 | | SOC 4 | Introduction to Gerontology |
| | Contemporary ¹ | | SOC 2 SOC 2H | Contemporary Social Problems Contemporary Social Problems - Honors |
| POLI 7 | Political Theory II - Early Modern to | | SOC 1H | Sociology - Honors |
| POLI 5 | Political Theory I - Ancient to Contemporary | | SOC 1 | Sociology |
| PHIL 20BH | History of Modern Philosophy - Honors | | PSYC 25 | The Psychology of Women |
| PHIL 20B | History of Modern Philosophy | | PSYC 19 | Abnormal Psychology |
| PHIL 20AH | History of Ancient Philosophy - Honors | | PSYC 15 | Introduction to Child Psychology |
| PHIL 20A | History of Ancient Philosophy | | PSYC 14 | Developmental Psychology |
| PHIL 15H | Major World Religions - Honors | | PSYC 1AH | Introduction to Psychology - Honors |
| PHIL 15 | Major World Religions | | PSYC 1A | Introduction to Psychology |
| PHIL 12H | Introduction to Ethics - Honors | | POLI 35 | African American Politics |
| PHIL 12 | Introduction to Ethics | | POLI 25 | Latino Politics in the United States |
| PHIL 5H | Introduction to Philosophy - Honors | | POLI 10 | Environmental Politics |
| PHIL 5 | Introduction to Philosophy | | POLI 9 | Introduction to International Relations |
| LIT 47 | The Bible As Literature: New Testament | | | Contemporary ¹ |
| LIT 46 | The Bible As Literature: Old Testament | | POLI 7 | Political Theory II - Early Modern to |
| LIT 36 | Introduction to Mythology | | | 1 |
| LIT 25 | Contemporary Mexican American Literature | | POLI 5 | Political Theory I - Ancient to Contemporary |
| LIT 20 | African American Literature | | POLI 1H | Politics - Honors |
| LIT 15 | Introduction to Cinema | | | Politics Introduction to American Government and |
| LIT 14 | Introduction to Modern Poetry | | POLI 1 | Introduction to American Government and |
| LIT 11B | World Literature from 1650 | | HIST 44 | History of Native Americans |
| LIT 11A | World Literature to 1650 | | HIST 16 | The Wild West - A History, 1800-1890 ¹ |
| LIT 10 | Survey of Shakespeare | | GEOG 30H | Geography of California - Honors |
| LIT 6B | Survey of English Literature | | GEOG 30 | Geography of California |
| LIT 6A | Survey of English Literature | | GEOG 8 | The Urban World |
| LIT 3 | Multicultural American Literature | | GEOG 2H | Human Geography - Honors |
| LIT 2 | Modern American Literature | | GEOG 2 | Human Geography |
| LIT 1 | Early American Literature | | | - Honors |
| JAPN 5 | Advanced Japanese | | BUSC 1BH | Principles of Economics - Microeconomics |
| JAPN 4 | Continuing Intermediate Japanese | | BUSC 1B | Principles of Economics - Microeconomics |
| JAPN 3 | Intermediate Japanese | | 0000 1/11 | - Honors |
| ITAL 60 | Italian Culture Through Cinema | | BUSC 1AH | Principles of Economics - Macroeconomics |
| ITAL 4 | Continuing Intermediate Italian | | BUSC 1A | Principles of Economics - Macroeconomics |

| U | ourse Prenx | Course Name | Uni | |
|---|---|--|-----|--|
| | Choose three courses total from a minimum of two different subject areas: | | | |
| | AHIS 9 | History of Asian Art and Architecture ¹ | | |
| | AHIS 12 | History of Precolumbian Art and Architecture ¹ | | |
| | AHIS 12H | History of Precolumbian Art and Architecture - Honors ¹ | | |
| | AHIS 15 | Culture and Art of Pompeii ¹ | | |
| | ANTH 3 | Archaeology | | |
| | ANTH 4 | Archaeology | | |
| | ANTH 5 | Principles of Cultural Anthropology | | |

| Area 5: | Physical | and | Biological | Sciences |
|---------|----------|-----|-------------------|----------|
|---------|----------|-----|-------------------|----------|

Course Prefix Course Name

Units

Choose two courses, one physical and one biological science; at least one must include a laboratory. Laboratory must be a corresponding section to the lecture course taken. ¹

Interpersonal Communication

Interpersonal Communication - Honors

Gateway to Communication Studies

Physical Science

SPCH 26

SPCH 26H

SPCH 30

ASTR 5 Introduction to Astronomy

| | ASTR 5H | Introduction to Astronomy - Honors | | | |
|---|------------------|--|--|--|--|
| | ASTR 5L | Astronomical Observing Laboratory ¹ | | | |
| | ASTR 7 | Geology of the Solar System | | | |
| | ASTR 8 | Introduction to Stars, Galaxies, and the Universe | | | |
| | CHEM 10 | Chemistry for Allied Health Majors ¹ | | | |
| | CHEM 20 | Introductory Organic and Biochemistry ¹ | | | |
| | CHEM 40 | Introduction to General Chemistry ¹ | | | |
| | CHEM 50 | General Chemistry I ¹ | | | |
| | CHEM 50H | General Chemistry I - Honors ¹ | | | |
| | CHEM 51 | General Chemistry II ¹ | | | |
| | CHEM 51H | General Chemistry II - Honors | | | |
| | GEOG 1 | Physical Geography | | | |
| | GEOG 1H | Physical Geography - Honors | | | |
| | GEOG 1L | Physical Geography Laboratory ¹ | | | |
| | GEOG 1LH | Physical Geography Laboratory - Honors ¹ | | | |
| | GEOL 1 | Physical Geology ¹ | | | |
| | GEOL 7 | Geology of California | | | |
| | GEOL 8 | Earth Science | | | |
| | GEOL 8H | Earth Science - Honors | | | |
| | GEOL 8L | Earth Science Laboratory ¹ | | | |
| | GEOL 9 | Environmental Geology | | | |
| | GEOL 10 | Natural Disasters | | | |
| | METO 3 | Weather and the Atmospheric Environment | | | |
| | METO 3L | Weather and Atmospheric Environment Laboratory ¹ | | | |
| | OCEA 10 | Introduction to Oceanography | | | |
| | OCEA 10H | Introduction to Oceanography - Honors | | | |
| | OCEA 10L | Introduction to Oceanography Laboratory ¹ | | | |
| | PHSC 3 | Energy Science | | | |
| | PHSC 9 | Physical Science | | | |
| | PHYS 1 | Physics ¹ | | | |
| | PHYS 2AG | General Physics | | | |
| | PHYS 2BG | General Physics | | | |
| | PHYS 4A | Engineering Physics ¹ | | | |
| | PHYS 4B | Engineering Physics ¹ | | | |
| | PHYS 4C | Engineering Physics ¹ | | | |
| | PHYS 6A | General Physics with Calculus | | | |
| | PHYS 6B | General Physics with Calculus ¹ | | | |
| В | iological Scienc | | | | |
| | ANAT 10A | Introductory Human Anatomy ¹ | | | |
| | ANAT 10B | Introductory Human Physiology ¹ | | | |
| | ANAT 35 | Human Anatomy | | | |
| | ANAT 36 | Human Physiology ¹ | | | |
| | ANTH 1 | Biological Anthropology | | | |
| | ANTH 1H | Biological Anthropology - Honors | | | |
| | ANTH 1L | Biological Anthropology Laboratory ¹ | | | |
| | BIOL 1 | General Biology ¹ | | | |
| | BIOL 2 | Plant and Animal Biology | | | |
| | BIOL 3 | Ecology and Field Biology ¹ | | | |
| | BIOL 4 | Biology for Majors ¹ | | | |
| | BIOL 4H | Biology for Majors - Honors ¹ | | | |
| | | | | | |

| BIOL 6 | Humans and the Environment |
|----------|--|
| BIOL 6L | Humans and the Environment Laboratory ¹ |
| BIOL 8 | Cell and Molecular Biology ¹ |
| BIOL 20 | Marine Biology |
| BIOL 21 | Marine Biology Laboratory ¹ |
| BIOL 25 | Conservation Biology |
| BIOL 34 | Fundamentals of Genetics |
| BIOL 34L | Fundamentals of Genetics Lab ¹ |
| MICR 1 | Principles of Microbiology ¹ |
| MICR 22 | Microbiology ¹ |
| PSYC 1B | Biological Psychology |
| | |

Notes

UC limits transfer credit for some courses. Students may review the UC Transfer Course Agreement (TCA) with an educational advisor or counselor in the Student Services Center. Students must see an educational advisor or counselor for preliminary IGETC certification. For IGETC certification, the course must be on the list during the year taken. Students from non-English speaking countries should see an educational advisor or international student counselor for language proficiency equivalences.

UC Requirement Only

Language other than English

The minimum proficiency required is met by completing one of the courses listed below or by completion of two years of high school study in the same language.

| Course Prefix | Course Name | Units |
|---------------|-----------------------------------|-------|
| ARAB 1 | Elementary Arabic | |
| CHIN 1 | Elementary Chinese | |
| FRCH 1 | Elementary French | |
| GERM 1 | Elementary German | |
| ITAL 1 | Elementary Italian | |
| JAPN 1 | Elementary Japanese | |
| LATN 1 | Elementary Latin | |
| SIGN 101 | American Sign Language 1 | |
| SIGN 101H | American Sign Language 1 - Honors | |
| SPAN 1 | Elementary Spanish | |
| SPAN 1S | Spanish for the Spanish Speaking | |

CSU Graduation Requirements Only in U.S. History, Constitution, and American Ideals

Note: UCSB requires a college-level U.S. history or government course.

| Course Prefix Option 1 | Course Name | Units |
|--|--|-------|
| HIST 7 | History of the United States to 1877 | |
| or HIST 7H | History of the United States to 1877 - Honors | |
| HIST 8 | History of the United States from 1865 | |
| or HIST 8H | History of the United States from 1865 - Honors | |
| If Option 1 is sele your third Area D | cted, DO NOT select another D6 course as course. | |
| Oution 0 | | |

Option 2

Choose one course from U.S. History plus one course from American Institutions:

United States History

| | , |
|--------------------|---|
| HIST 1 | History of the United States |
| HIST 7 | History of the United States to 1877 |
| HIST 7H | History of the United States to 1877 - Honors |
| HIST 8 | History of the United States from 1865 |
| HIST 8H | History of the United States from 1865 - Honors |
| HIST 30 | History of the African American 1619-1877 |
| HIST 31 | History of the African American |
| HIST 36 | Women in American History |
| HIST 40 | History of the Mexican American |
| American Instituti | ions |
| POLI 1 | Introduction to American Government and Politics |
| POLI 1H | Introduction to American Government and Politics - Honors |
| POLI 25 | Latino Politics in the United States |
| POLI 35 | African American Politics |

DEFINITION OF TERMS

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example ENGL 100, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID ENGL 100 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org (http:// www.assist.org/web-assist/welcome.html) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org (http:// www.assist.org/web-assist/welcome.html) for specific information on C-ID course designations. Counselors are also available in the Counseling Center to help students interpret this information.

CSU Transfer

Courses designated "CSU" are baccalaureate level and will transfer to all of the California State Universities and count toward graduation at Mt. San Antonio College.

UC Transfer

Courses designated "UC" are baccalaureate level and will transfer to all of the University of California campuses and California State Universities, and will count toward graduation at Mt. San Antonio College.

UC Credit Limitation

UC limits credit for some courses. Students contemplating transfer to UC should consult with a counselor or advisor and review www.assist.org (http://www.assist.org/web-assist/welcome.html)for course credit limitations and changes.

UC Credit for Kinesiology Activity Courses

A maximum of four semester units of UC credit will be awarded for Kinesiology Activity courses. Courses of a vocational nature will not be awarded UC credit.

Eligibility

In listing a prerequisite for enrolling in a course, an "eligibility" may also be listed. An eligibility requirement specifies the course level the student must qualify to enroll in-not that the course has to be completed prior to enrollment. For example, the prerequisite "eligibility for English 68" requires that the student must qualify to enroll in English 68 in order to enroll in the particular course.

Prerequisite

A prerequisite is a course which must be taken as preparation for enrolling in another course.

Corequisite

A corequisite is a course which is required to be taken simultaneously in order to enroll in another course.

Advisory

An advisory is a course which is advised, but not required, to be taken either before or in conjunction with enrollment in a course.

Not Degree Applicable

Courses designated "Not Degree Applicable" are college level classes which are neither a part of an associate degree or certificate program nor transferable to four-year colleges and universities.

Degree Applicable

Courses designated "Degree Applicable" are college-level classes which are a part of an associate degree or certificate program.

Transfer Degree

Associate in Arts for Transfer and Associate in Science for Transfer are referred to as Transfer degrees.

Associate Degree

Associate in Science degrees and Associate in Arts degrees in Liberal Arts and Sciences with Emphases are referred to as Associate degrees.

Certificate of Achievement

Certificates of Achievement are certificates of at least 18 units.

Skills Certificate

Skills Certificates are certificates of less than 18 units.

Course Prefix Listing

| COULSE FLETIX LISTING | |
|---|-----|
| Administration of Justice: Law Enforcement (ADJU) | 223 |
| Aeronautics (AERO) | |
| Agriculture: Animal Health Technology (AGHE) | 225 |
| Agriculture: Animal Science General (AGAN) | |
| Agriculture: General Subjects (AGAG) | 227 |
| Agriculture: Livestock Production (AGLI) | |
| Agriculture: Ornamental Horticulture (AGOR) | 228 |
| Agriculture: Pet Science (AGPE) | |
| Air Conditioning & Refrigeration (AIRC) | |
| Aircraft Maintenance Technology (AIRM) | |
| Air Traffic Control(AIRT) | |
| Alcohol Drug Counseling (AD) | |
| American Language (AMLA) | |
| Anatomy & Physiology (ANAT) | |
| Anthropology (ANTH) | |
| Arabic (ARAB) | |
| Architectural Technology (ARCH) | |
| Art: Animation (ANIM) | |
| Art: Basic Studio Arts (ARTB) | |
| Art: Gallery & Professional Practices (ARTG) | |
| Art: Graphic Design and Illustration (ARTC) | |
| Art History: (AHIS) | |
| Art: Special Studio Arts (ARTZ) | |
| Art: Three-Dimensional Studio Arts (ARTS) | |
| Art: Two-Dimensional Studio Arts (ARTD) | |
| Astronomy (ASTR) | |
| Biology (BIOL) | |
| Botany (BTNY) | |
| Business: Accounting (BUSA) | |
| Business: Business Communication (BUSO) Business: Economics (BUSC) | |
| | |
| Business: Law (BUSL) Business: Management (BUSM) | |
| Business: Real Estate (BUSR) | |
| Business: Sales, Merchandising & Marketing (BUSS) | |
| Chemistry (CHEM) | |
| Child Development (CHLD) | |
| Chinese (CHIN) | |
| Computer and Networking Technology (CNET) | |
| Computer Information Systems: Beginning (CISB) | |
| Computer Information Systems: Database (CISD) | |
| Computer Information Systems: Management (CISM) | |
| Computer Information Systems: Networking (CISN) | |
| Computer Information Systems: Programming (CISP) | |
| Computer Information Systems: Security (CISS) | |
| Computer Information Systems: Web Applications (CISW) | |
| Computer Science (CSCI) | |
| Counseling (COUN) | |
| Dance: Activity (DNCE) | |
| Dance: Theory (DN-T) | |
| Disabled Students (DSPS) | |
| Education (EDUC) | |
| Electronics (ELEC) | |
| Electronics Systems Technology (EST) | |
| Emergency Medical Service (EMS) | |
| Emergency Medical Technician (EMT) | |
| Engineering (ENGR) | |
| Engineering Construction Technology (ECT) | |
| Engineering Design Technology (EDT) | |
| English: Composition (ENGL) | |
| English: Literature (LIT) | |
| Family & Consumer Sciences (FCS) | |
| | |

| Fashion Merchandising & Design (FASH) | |
|---|---|
| Fire Technology (FIRE) | |
| French (FRCH) | |
| Geography (GEOG) | |
| Geology (GEOL) | |
| German (GERM) | |
| History (HIST) | |
| Histotechnology (HT) | |
| Hospitality & Restaurant Management (HRM) | |
| Humanities (HUMA) | |
| Industrial Design Engineering (IDE) | |
| Interior Design (ID) | |
| Italian (ITAL) | |
| Japanese (JAPN) | |
| Journalism (JOUR) | |
| Kinesiology: Adaptive (KINL) | |
| Kinesiology: Aquatics (KINA) | |
| Kinesiology: Athletics (KINX) | |
| Kinesiology: Fitness (KINF) | |
| Kinesiology: Individual (KINI) | |
| Kinesiology: Team Sport (KINS) | |
| Kinesiology: Theory (KIN) | |
| Latin (LATN) | |
| Leadership (LEAD) | |
| Learning Assistance (LERN) | |
| Learning Communities (LCOM) | |
| Library & Instructional Media (LIBR) | |
| Manufacturing Technology (MFG) | |
| Mathematics (MATH) | |
| Medical Terminology (MEDI) | |
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| Mental Health/Psychiatric Technician (MENT) | |
| Meteorology (METO) | 6 |
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Administration of Justice: Law Enforcement (ADJU)

ADJU 1 The Administration of Justice System

3 Units (Degree Applicable, CSU, UC, C-ID #: AJ 110) Lecture: 54

History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction. Course Schedule

ADJU 2 Principles and Procedures of the Justice System

3 Units (Degree Applicable, CSU, C-ID #: AJ 122) Lecture: 54

Due process in criminal proceedings from pre-arrest through trial and appeal using statutory law and legal precedent. Course Schedule

ADJU 3 Concepts of Criminal Law

3 Units (Degree Applicable, CSU, UC) Lecture: 45 Lab: 27

Classification of crime, elements of crimes, common and statutory law, and evidence as observed through the study of case law decisions by state and federal courts. Course Schedule

ADJU 4 Legal Aspects of Evidence

3 Units (Degree Applicable, CSU, C-ID #: AJ 124) Lecture: 54

Criminal evidence, including admissibility, witness competency, privileged communication, hearsay, and collection and preservation of evidence. Course Schedule

ADJU 5 Community Relations

3 Units (Degree Applicable, CSU, UC, C-ID #: AJ 160) Lecture: 54

Examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Course Schedule

ADJU 6 Concepts of Enforcement Services

3 Units (Degree Applicable) Lecture: 54

Responsibilities, techniques and methods of police patrol with emphasis on the knowledge required in handling common police occurrences. Course Schedule

ADJU 9 Introduction to Homeland Security

3 Units (Degree Applicable, CSU) Lecture: 54

Public management policies and issues relevant to the security of the United States. Roles and responsibilities of federal, state, and local law enforcement agencies. Emphasis on the role of first responders to threats and events through theories, concepts, and case studies. Course Schedule

ADJU 10 Introduction to Correctional Sciences 3 Units (Degree Applicable, CSU)

Lecture: 54

Formerly CORS 10 The philosophy behind past and present practices used in the criminal justice and correctional processes. Includes the analysis of punishment and alternatives including their impact in corrections within the criminal justice system. The examination of the types of clients within correctional institutions and various contemporary correctional issues. Course Schedule

ADJU 13 Concepts of Traffic Services

3 Units (Degree Applicable) Lecture: 54

Traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and traffic management specialization. Emphasis is placed on service to the motoring public. Course Schedule

ADJU 20 Principles of Investigation

3 Units (Degree Applicable, CSU) Lecture: 45 Lab: 27

Investigation, 4th Amendment issues including crime scene search and recording, collection and preservation of physical evidence, modus operandi, suspect profiling scientific aids, sources of information, use of informants, interviews and interrogation, follow up, and case preparation. Course Schedule

ADJU 38 Narcotics Investigation

3 Units (Degree Applicable) Lecture: 54

Investigation and arrest techniques for drug enforcement. Drug effects, use of informants, constitutional issues, and handling of evidence. Course Schedule

ADJU 50 Introduction to Forensics for Criminal Justice

3 Units (Degree Applicable, CSU) Lecture: 45 Lab: 27

Collecting, preserving, and analyzing physical evidence. Focuses on the reliability of physical evidence for the purpose of establishing facts and proof.

Course Schedule

ADJU 59 Gangs and Corrections

3 Units (Degree Applicable, CSU) Lecture: 54

Contemporary street and prison gang issues, including historical and current perspectives, gang dynamics, identification of characteristics, and cultural differences of gang philosophy. Includes law enforcement and correction's role in intervention and suppression. Course Schedule

ADJU 68 Administration of Justice Report Writing

3 Units (Degree Applicable) Lecture: 45 Lab: 27 Prerequisite: Eligibility for ENGL 1A

Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing. Course Schedule

ADJU 74 Vice Control

3 Units (Degree Applicable) Lecture: 54

Code and case law dealing with vice detection and suppression, apprehension and prosecution of violators, gambling, prostitution, and sex crimes. Course Schedule

ADJU 90 Work Experience in Administration of Justice

1-4 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300

Prerequisite: Prior approval by ADJU department faculty and compliance with Work Experience regulations as designated in the College Catalog

Provides actual on-the-job experience at an approved work site which is related to classroom instruction in Administration of Justice. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. If this is a volunteer program on or off campus, a minimum number hours per month will be required as part of the 60 hour total. Students who repeat this course will have an opportunity to create a performance contract with a supervisor and the end of the course which will detail specific learning objectives to achieve during the next phase.

Course Schedule

Aeronautics (AERO)

AERO 100 Primary Pilot Ground School 4 Units (Degree Applicable, CSU) Lecture: 72

Formerly AERO 23. Aerodynamics, aircraft performance, Federal Aviation Regulations, aviation weather factors, and cross-country navigation procedures; provides introductory material on radio navigation, aeromedical factors, and radio communications procedures. Meets the preparation requirements for the FAA Private Pilot knowledge examination and FAA Air Traffic Control Basics. Course Schedule

AERO 102 Aviation Weather 3 Units (Degree Applicable, CSU)

Lecture: 54

Formerly AERO 26. Weather elements, atmosphere, weather mechanics, weather disturbances, weather analysis and forecasts. Evaluation of aviation weather reports and forecasts. Course Schedule

AERO 104 Federal Aviation Regulations

2 Units (Degree Applicable, CSU) Lecture: 36

Formerly AERO 29. Federal Aviation Regulations (FAR), pertaining to pilot certification, aircraft maintenance, general operating rules; air traffic control practices and procedures; reporting of aircraft accidents. Course Schedule

AERO 150 Commercial Pilot Ground School

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 23 or AERO 100

Formerly AERO 25. Federal Aviation Administration (FAA) Commercial Pilot certification requirements, including aerodynamics, commercial pilot maneuvers, complex aircraft operations, multi-engine aircraft operations, aircraft weight and balance, aircraft performance charts, and radio navigation using advanced instrumentation. Prepares students for completion of the FAA Commercial Pilot Computerized Knowledge Examination.

Course Schedule

AERO 152 Air Transportation

3 Units (Degree Applicable, CSU) Lecture: 54

Formerly TRAN 17. Survey course of the air transportation industry. Topics include an introduction to air transportation, structure and economics of the airlines, general aviation operations, and aviation career planning.

Course Schedule

AERO 200 Aviation Safety and Human Factors

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 23 or AERO 100

Formerly AERO 27. Evaluation and analysis of factors leading to aircraft accidents as it relates to the environment of the pilot and air traffic controller. Course Schedule

AERO 202 Aircraft and Engines

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 100 or AERO 23

Formerly AERO 28. Aircraft design, subsystems, repair and maintenance. Principles of internal combustion engines, fuel system, engine construction and design, lubrication and cooling methods, ignition system, basic troubleshooting. Turbine engine basic design and operational characteristics. Course Schedule

AERO 206L Flight Simulator Laboratory

0.5 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 27 Advisory: AERO 25 or AERO 150

Formerly AERO 41. Flight simulator training in the iGATE Computerbased Aviation Training (PC-ATD) simulator in preparation for the instrument rating. Full and partial panel airwork, holding patterns, VHF Omnidirectional Range (VOR) and Automatic Directional Finder (ADF) orientation, and instrument approach procedures. Course Schedule

AERO 250 Navigation

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 23 or AERO 100

Formerly AERO 24. Dead reckoning navigation procedures. Aeronautical computers and their application in cross-country flying. Use of radio navigation aids, flight planning, flight directors, global positioning system, and electronic flight instrumentation systems. Course Schedule

AERO 252 Instrument Ground School

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: (AERO 23 or AERO 100) and (AERO 26 or AERO 102)

Formerly AERO 30. Instrument Flight Rules (IFR), Air Traffic Control communications and procedures, air navigation radio aids, instrument landing systems, flight instruments, aircraft performance, aeronautical publications, instrument approach procedures, IFR cross-country navigation, and instrument weather. Meets the preparation requirements for the FAA Instrument Pilot computerized knowledge exam. Course Schedule

AERO 254 Aircraft Dispatcher Operations

4 Units (Not Degree Applicable) Lecture: 54 Lab: 54 Prerequisite: AERO 100, and AERO 102, and AERO 104, and AERO 150, and AERO 152, and AERO 200, and AERO 202, and AERO 250, and AERO 252

Elements and techniques of aircraft dispatch operations. Includes aircraft dispatcher briefings to a simulated flight crew. This course prepares students to enter employment as a certified aircraft dispatcher in the airline industry, air-medical industry, corporate aircraft operators, and aviation weather service companies. Successful completion of this course enables students to take the Federal Aviation Administration (FAA) written, oral, and practical tests for the FAA Aircraft Dispatcher Certificate. Students who pass the FAA Aircraft Dispatcher Knowledge Test will qualify to take the FAA Oral and Practical Examination for the FAA aircraft dispatcher certificate. Course Schedule

AERO 256 Flight Instructor Ground School

3 Units (Degree Applicable) Lecture: 54 Advisory: (AERO 25 or AERO 150) and (AERO 30 or AERO 252)

Basic teaching principles and application of those principles in teaching student pilots. Analysis of flight maneuvers and instruments. Prepares students for Federal Aviation Administration (FAA) knowledge tests for Flight Instructors. Course Schedule

AERO 258 Multi-Engine Turbine Aircraft Operations

3 Units (Degree Applicable) Lecture: 54 Advisory: (AERO 23 or AERO 100) and (AERO 30 or AERO 252)

Formerly AERO 45A. Design features and operational characteristics of a multi-engine turbine aircraft utilized in regional airline operations and corporate aviation, with emphasis on aircraft and engine systems. Offcampus trips maybe required. Course Schedule

Agriculture: Animal Health Technology (AGHE)

AGHE 54 Veterinary Office Procedures 3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Veterinary medical records, client relations, medical terminology, filing of governmental reports, legal responsibilities of registered veterinary technicians, and veterinary medical ethics. Course Schedule

AGHE 60 Medical Nursing and Animal Care

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: AGHE 86 and AGHE 64 and Formal admittance to the Registered Veterinary Technology program Corequisite: AGHE 62A (may have been taken previously)

Animal examination for health and disease conditions in the animal hospital, including sanitation, administration of medicine, emergency treatment, therapeutic techniques, dental prophylaxis, venipuncture, electrocardiology, and application of casts, splints, and other appliances. Includes diseases both infectious and zoonotic, their causes and effects, and immunology of animals. Formal admittance to the Registered Veterinary Technology program required. Course Schedule

AGHE 61 Animal Surgical Nursing

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: AGHE 60 and formal admittance to the Registered Veterinary Technology Program Corequisite: AGHE 62B

Surgical preparation, surgical assistance, post-operative care, administering and monitoring anesthesia, dentistry, cardiopulmonary resuscitation (CPR), sterilization, and the maintenance of a sterile environment. Course Schedule

AGHE 62A Clinical Pathology

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: AGHE 86 and Formal Admittance to the Registered Veterinary Technology Program

Hematology, clinical chemistries, internal parasites, immunology, serology, and vaginal cytology of domestic animals. Course Schedule

AGHE 62B Clinical Pathology

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: AGHE 86 and Formal Admittance to the Registered Veterinary Technology Program

Bacteriology, clinical chemistry, urinalysis, external parasites and cytology of domestic animals. Course Schedule

AGHE 64 Veterinary Pharmacology

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: AGHE 86 and (MATH 71, MATH 71B, or MATH 71X)

Pharmaceuticals and biologics commonly used in the maintenance of animal health. Includes generic terminology, abbreviations for prescriptions, labeling requirements, state and federal laws, classification of materials, weights and measures, drug dosage flow rates, pharmacological mathematics and the metric system, side effects and drug interactions. Course Schedule

AGHE 65 Veterinary Radiography

2 Units (Degree Applicable, CSU) Lecture: 18 Lab: 54 Prerequisite: AGHE 86 and formal admittance to the registered veterinary technology program

Concepts and skills of veterinary positioning of canine, feline, avian, reptilian species, and livestock for radiography; processing of the radiograph; radiation safety; technique and instrumentation; contrast radiography, dental radiology and advanced imaging such as ultrasound, MRI, CT scan, nuclear isotopes scans. Emphasizes performance of x-ray procedures for the veterinary practitioner. Course Schedule

AGHE 79 Laboratory Animal Medicine and Care

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Laboratory animal medicine, care and procedures, rules and regulations governing laboratory animals. Course Schedule

AGHE 83A Work Experience in Animal Health

1-4 Units (Degree Applicable, CSU)
(May be taken for Pass/No Pass only)
Lab: 75-300
Prerequisite: AGAN 51 and Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide Registered Veterinary Technician majors with actual on-the-job experience at an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Instructor approval required. Course Schedule

AGHE 84B Applied Animal Health Procedures

1 Unit (Degree Applicable)

Lab: 54

Prerequisite: Formal Admittance to the Registered Veterinary Technology Program

A field study course that emphasizes practical experience in applied clinical procedures and techniques, including treatments, preventive health care and minor surgical procedures with school owned domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices during fall and spring. Course Schedule

AGHE 85 Seminar in Registered Veterinary Technology

1 Unit (Degree Applicable)

Lecture: 18

Prerequisite: AGHE 60 and completion of the Registered Veterinary Technology program.

Prepares students for national and state veterinary technician registration examinations. Includes exposure to the types of questions encountered in registration examinations, question analysis strategies, and review of important anatomical, physiological, and nursing concepts. Course Schedule

AGHE 86 Anatomy and Physiology of Domestic Animals

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: BIOL 1

Analyzes the body structures and systems, comparing domestic animals commonly found in veterinary medicine. The physiology section will emphasize functions of internal organs and body systems. Course Schedule

Agriculture: Animal Science - General (AGAN)

AGAN 1 Animal Science

3 Units (Degree Applicable, CSU, UC) Lecture: 54

A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics, and epidemiology. Emphasis on the origin, characteristics, adaptations, and contributions of livestock to the modern agriculture industry. Field trips may be required. Course Schedule

AGAN 2 Animal Nutrition

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

Course Schedule

AGAN 51 Animal Handling and Restraint

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Methods of proper handling for large and small animals, including chemical and physical techniques of restraint. Field trip required. Course Schedule

AGAN 94 Animal Breeding

3 Units (Degree Applicable) Lecture: 54

The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included. Course Schedule

Agriculture: General Subjects (AGAG)

AGAG 1 Food Production, Land Use, and Politics - A Global Perspective 3 Units (Degree Applicable, CSU, UC) Lecture: 54

Surveys the world's food producing systems in terms of economic, political, and cultural forces. Emphasizes ethical, sustainable food producing agriculture. Course Schedule

AGAG 59 Work Experience in Agriculture

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide Animal Science majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 nonpaid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Instructor approval required. Course Schedule

AGAG 91 Agricultural Calculations

3 Units (Degree Applicable) Lecture: 54 Prerequisite: Eligibility for MATH 51

Calculating the proper dosages of veterinary drugs, application rates of farm and horticultural chemicals inclusive of fertilizer and pesticide materials, feed rations, land area and volume measurements, calibrating application equipment, plotting production rates and feed conversion, determining proper concentrations and dilutions. Course Schedule

AGAG 99 Special Projects in Agriculture

2 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lecture: 36

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration.

Course Schedule

Agriculture: Livestock Production (AGLI)

AGLI 12 Exotic Animal Management 3 Units (Degree Applicable) Lecture: 54

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals. Course Schedule

AGLI 14 Swine Production

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Study of the principles and practices in the purebred and commercial pork production industries; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and recordkeeping to ensure scientifically-based management decisions and consumer product acceptance. Course Schedule

AGLI 16 Horse Production and Management

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54

Selection, utilization, and management of the light horse. Emphasis is on evaluation, health care, and handling skills. Course Schedule

AGLI 17 Sheep Production

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Survey of the sheep and goat industries; management of commercial, purebred and small farm flocks; selecting, feeding, breeding, and basic care of small ruminants plus marketing of sheep, goats and their products. Laboratory and field trips required. Course Schedule

AGLI 18 Horse Ranch Management

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: AGLI 16

Skills and procedures used in the management of an equine business. Includes business plans and record keeping, staff and financial management, horse care and training, and farm design for a variety of horse operations. Course Schedule

AGLI 19 Horse Hoof Care

2 Units (Degree Applicable, CSU) Lecture: 18 Lab: 54

Proper horse hoof care; shoeing, trimming and disease recognition and control. Course Schedule

AGLI 20 Horse Behavior and Training

2 Units (Degree Applicable) Lecture: 18 Lab: 54 Corequisite: AGLI 16

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading. Course Schedule

AGLI 30 Beef Production

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Purebred and commercial beef cattle production; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing, and recordkeeping to ensure scientifically based management decisions and consumer product acceptance as applied to beef cattle. Laboratory required. Field trips required. Course Schedule

AGLI 34 Livestock Judging and Selection

2 Units (Degree Applicable, CSU, UC) Lecture: 18 Lab: 54

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation. Course Schedule

AGLI 96 Animal Sanitation and Disease Control

3 Units (Degree Applicable, CSU) Lecture: 54

Prevention and control of infectious diseases affecting domestic animals including basic disease concepts, transmission of infectious diseases, principles of sanitation, and fundamentals of immunology. Course Schedule

AGLI 97 Artificial Insemination of Livestock

2 Units (Degree Applicable) Lecture: 18 Lab: 54

Theory and application of artificial insemination of domestic animals, including semen evaluation and processing, heat synchronization, and pregnancy diagnosis. Course Schedule

Agriculture: Ornamental Horticulture (AGOR)

AGOR 1 Horticultural Science

3 Units (Degree Applicable, CSU, C-ID #: AG-PS 104) Lecture: 54

Horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development. Offcampus meetings required. Course Schedule

AGOR 2 Plant Propagation/Greenhouse Management

3 Units (Degree Applicable, CSU, C-ID #: AG-EH 116L) Lecture: 36 Lab: 54

Plant propagation and production practices with emphasis on florists' plants, woody ornamentals, and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing, and division. Stresses greenhouses and other environmental structures for plant propagation and production. Course Schedule

AGOR 4 Park Management

3 Units (Degree Applicable) Lecture: 54

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling. Course Schedule

AGOR 5 Park Facilities

3 Units (Degree Applicable) Lecture: 54

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses. Course Schedule

AGOR 13 Landscape Design

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 54

Landscape design for residential and small commercial sites including the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Field trips and off-campus assignments required. Course Schedule

AGOR 14 Advanced Landscape Design

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: AGOR 13

Computer Assisted Design and Drafting (CAD) with applications for landscape horticultural businesses. Includes applied CAD for plan, detail, elevation, and section drawings with exposure to CAD associated databases and plant selection programs. Field trips required. Course Schedule

AGOR 15 Interior Landscaping

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Design, installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use. Field trip required. Course Schedule

AGOR 24 Integrated Pest Management

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Common agricultural pests in Southern California and physical, biological, and chemical pest control principles and practices, including integrated pest management (IPM). Stresses use, safety, equipment, laws, and regulations of pesticides. Field trips are required. Course Schedule

AGOR 29 Ornamental Plants - Herbaceous

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-EH 108L) Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, groundcovers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists. Off campus meetings required. Course Schedule

AGOR 30 Ornamental Plants - Trees and Woody Shrubs

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-EH 112L) Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists. Off-campus meetings required. Course Schedule

AGOR 32 Landscaping and Nursery Management

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas, greenhouse management, soil mixes, proper use of fertilizers, insecticides, fungicides, herbicides, growth regulators, irrigation, mechanization, financing, personnel management, retail displays, advertising, customer relationships, federal, state, and local laws and regulations. Field trips are required. Course Schedule

AGOR 35 Ornamental Plants for Southwest Climates

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of annuals, perennials, groundcovers, shrubs, trees, cacti, and succulents which are native to California and the Southwest, or drought tolerant in Southern California.

Course Schedule

AGOR 39 Turf Grass Production and Management

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Cultivation, maintenance, and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries, and commercial and residential lawns. Identification, installation, cultural requirements, and maintenance practices are emphasized. Field trips required. Course Schedule

AGOR 40 Sports Turf Management

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Prerequisite: AGOR 39 or equivalent experience

Prepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges, and other sports fields in both professional and amateur sports. Field trips required. Course Schedule

AGOR 50 Soil Science and Management

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-PS 128L) Lecture: 36 Lab: 54

Principles of soil management, including management of air, water, nutrients, organic matter. Study of soil including physical, chemical, and biological properties, classification, derivation, use, function, and management including erosion, moisture retention, structure, cultivation, organic matter, and microbiology as they pertain to optimized plant growth. Laboratory topics include soil type, classification, soil reaction, soil fertility, and physical properties of soil. Laboratory required. Field trips are required. Course Schedule

AGOR 51 Tractor and Landscape Equipment Operations

3 Units (Degree Applicable, CSU, C-ID #: AG-MA 108L) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Selection, operation, repair and maintenance of power equipment used in the agriculture and landscape industry. Includes two- and four-wheel drive tractors, skip loaders, skid steer loaders, backhoes, lawnmowers, edgers, weed eaters, blower vacuums, rototillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes use of this equipment. Course Schedule

AGOR 52 Hydraulics

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Operation, maintenance, and repair of hydraulic systems used for agriculture and industrial equipment. Emphasis on pumps, valves, cylinders, flow control, reservoirs, lines, motors, and hydrostatic transmissions. Course Schedule

AGOR 53 Small Engine Repair I

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2cycle engines, 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. Course Schedule

AGOR 54 Small Engine Repair II

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Prerequisite: AGOR 53

Advanced repair and maintenance of mid-horsepower gasoline and diesel engines. Multi-cylinder air- and water-cooled engines used in landscape, industrial, and agricultural applications. Repair of riding mowers, generator engines, air compressor engines, 2-cycle and 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gaspowered equipment. Field trips required. Course Schedule

AGOR 55 Diesel Engine Repair

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Repair and maintenance of diesel engines used to power industrial, landscape, and agricultural equipment. Includes hands-on experience maintaining, servicing, and repairing diesel engines. Course Schedule

AGOR 56 Engine Diagnostics

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Analysis and evaluation of tractor engine power failures with hands-on experience in the proper diagnostic procedures of power equipment. Includes service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries, and test equipment. Field trips are required. Course Schedule

AGOR 57 Power Train Repair

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Service, maintenance, and repair of power trains. Includes hands-on experience with clutches, transmissions, differentials, power take-off units, and final drives used to transmit power on tractors and other outdoor power equipment. Field trips are required. Course Schedule

AGOR 62 Irrigation Principles and Design

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Principles of irrigation, design techniques, sprinkler system components, and hydraulic principles used in nursery management, interior design, residential, and commercial landscapes. Special emphasis is given to water conservation. Field trips are required. Course Schedule

AGOR 63 Irrigation Systems Management

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Systematic approach to water conservation in landscapes. Soil-plantwater relationships, evapotranspiration, irrigation schedules, salinity and drainage, and irrigation efficiency. Water measurement, soil moisture measurement, irrigation systems, and practical constraints affecting scheduling. California water supply and budget, water rights, local, state, and federal water institutions, and California water issues. Irrigation efficiency testing will be incorporated to demonstrate proper methods of water audits and system evaluation. Field trips are required. Course Schedule

AGOR 64 Irrigation - Drip and Low Volume

3 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Conservation of water in landscapes by utilization of drip and lowflow irrigation practices. Design, installation techniques, operation, and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and lowflow devices, and uniformity of water distribution. Includes hands-on experience in design and installation techniques. Field trips are required. Course Schedule

AGOR 71 Construction Fundamentals

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Construction techniques and tools used in landscaping with construction projects that include surveying techniques, utilities (gas, water, and electricity), woodworking, and masonry. Course Schedule

AGOR 72 Landscape Hardscape Applications

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Landscape construction pertaining to hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities. Course Schedule

AGOR 73 Landscaping Laws, Contracting, and Estimating

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Landscape laws, contracting, and estimating as they pertain to landscape construction. Information covered will be helpful for the Landscape Contractor's (C-27 classification) licensing exam administered by the state of California. Off campus assignments required. Course Schedule

AGOR 75 Urban Arboriculture

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification exams. Course Schedule

AGOR 91 Work Experience in Horticulture

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300

Prerequisite: Three units of any AGOR course, with the exception of AGOR 1, must be taken prior to or concurrent with AGOR 91. Compliance with work experience regulations as designated in the College Catalog.

Course Schedule

Agriculture: Pet Science (AGPE)

AGPE 70 Pet Shop Management 3 Units (Degree Applicable) Lecture: 54

Pet shop operations and the economic aspects of the pet industry. Organization and operation of pet shops, animal care practices, and sound business management practices. Course Schedule

AGPE 71 Canine Management

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Selection, feeding, housing, breeding and management of dogs, including commercial aspects of the dog as a domestic pet. Laboratory work will include practical experience in the handling and training of dogs. May include field trips. Course Schedule

AGPE 72 Feline Management

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68

Care and management of cats including breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding, and housing. Course Schedule

AGPE 73 Tropical and Coldwater Fish Management

2 Units (Degree Applicable) Lecture: 36 Advisory: Eligibility for ENGL 68

Care and keeping of marine and freshwater aquarium fishes, plants, and invertebrates. Guidance on setting up aquariums, choosing compatible species, feeding, health care, breeding and raising fish. Course Schedule

AGPE 74 Reptile Management

2 Units (Degree Applicable) Lecture: 36 Advisory: Eligibility for ENGL 68

Care and maintenance of reptiles and amphibians, including snakes, lizards, turtles, tortoises, newts, salamanders and frogs. Identification and characteristics of reptiles commonly kept as pets. Housing, feeding, health maintenance, breeding and raising of reptiles. Course Schedule

AGPE 76 Aviculture - Cage and Aviary Birds

3 Units (Degree Applicable) Lecture: 54

Cage and aviary birds marketed in the wholesale and retail pet trade. Identification, nutrition, breeding, disease prevention and control, aviary construction. Psittacines, soft bills, finches, game birds, poultry and ornamental waterfowl. Course Schedule

Air Conditioning & Refrigeration (AIRC)

AIRC 10 Technical Mathematics in Air Conditioning and Refrigeration 2 Units (Degree Applicable) Lecture: 27 Lab: 27

Develops mathematical skills required for the study and application of air conditioning and refrigeration including measurements and equations applied to heat loads, air distribution, electricity, and the design of air conditioning and refrigeration equipment. Course Schedule

AIRC 11 Welding for Air Conditioning and Refrigeration

2 Units (Degree Applicable) Lecture: 18 Lab: 54

Fundamentals of welding related to the field of air conditioning and refrigeration with emphasis on the sterile techniques and skills required for joining copper refrigerant lines and the procedures for light fabrication.

Course Schedule

AIRC 12 Air Conditioning Codes and Standards 3 Units (Degree Applicable)

Lecture: 54

Building codes and standards as they apply to the air conditioning and refrigeration industry. Develops skills necessary to read and interpret building codes and resolve installation and service problems as they apply to the construction industry. Course Schedule

AIRC 20 Refrigeration Fundamentals

4 Units (Degree Applicable) Lecture: 54 Lab: 71

Principles of mechanical refrigeration based on the refrigeration cycle and associated mechanical components. Develops skills for interpreting service gauge pressures and sensible temperatures, system dehydration techniques, and the safe handling and containment of refrigerants. Course Schedule

AIRC 25 Electrical Fundamentals for Air Conditioning and Refrigeration 5 Units (Degree Applicable)

Lecture: 72 Lab: 54

Electrical principles and practices used in air conditioning, refrigeration, and heat pump systems as applied to the development and interpretation of schematics and the sequential approach to wiring circuits including power supplies, motors, and controls. Develops skills for designing electrical circuits, and electrical trouble shooting. Course Schedule

AIRC 26 Gas Heating Fundamentals

2 Units (Degree Applicable) Lecture: 36 Advisory: AIRC 12 and AIRC 25

Theory, operation, and application of natural gas and propane heating systems used in residential and light commercial heating installations, including the properties of fuel gasses, gas combustion, furnace construction, pilot proving devices, and ignition systems. Course Schedule

AIRC 30 Heat Load Calculations and Design

4 Units (Degree Applicable) Lecture: 72 Advisory: AIRC 20

Heat loss and heat gain will be examined, developed, and applied to residential dwellings air conditioning systems. Equipment sizing, selection, and duct design based on the Heat Load of the structure. Heat Load calculation software will be explored and used to aid in the process. Course Schedule

AIRC 31 Commercial Electrical for Air Conditioning and Refrigeration 4 Units (Degree Applicable)

Lecture: 54 Lab: 54 Advisory: AIRC 25

Electrical control of commercial air conditioning and refrigeration equipment emphasizing time clocks, defrost, three phase transformers, three phase motors, Variable Frequency Drives and troubleshooting of three phase systems. Course Schedule

AIRC 32A Air Properties and Measurement

1.5 Units (Degree Applicable) Lecture: 27 Advisory: AIRC 20 and AIRC 30 taken prior

Investigates the air-side operating theory and application of comfort cooling systems. This course will broaden the student's understanding of air conditioning systems by addressing psychrometrics to include the measurement of dry bulb and wet bulb temperatures, relative humidity, dew point temperatures, and sensible and latent heat processes. Course Schedule

AIRC 34 Advanced Mechanical Refrigeration

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: AIRC 20

Principles of mechanical air conditioning and refrigeration based on operating characteristics of working equipment and the interpretation of the pressure-enthalpy chart. Technical aspects of mechanical components will be explored to include compressors, metering devices, pressure regulators, capacity controls, and defrost methods. Course Schedule

AIRC 61 Building Automation Fundamentals

2.5 Units (Degree Applicable) Lecture: 36 Lab: 27 Advisory: AIRC 20 and AIRC 25 and AIRC 31 and AIRC 34 and ELEC 11

Basics of commercial HVAC control theory as it applies to electric, pneumatic, and digital control systems. Principles of chiller plant operation, air distribution, Variable Air Volume, constant air systems, and multizone systems. Course Schedule

AIRC 63 Building Control Networks

3 Units (Degree Applicable) Lecture: 54

Building Control Network implementations and protocol standards including web based applications, BACnet, Ethernet, LonTalk, and proprietary systems. Routers, installation, and troubleshooting will also be studied.

Course Schedule

AIRC 65 Building Automation Networks and Programming

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Advisory: AIRC 61 and ELEC 11

Programming heating, ventilation, and air conditioning (HVAC) direct digital controllers using line (text) programming, icon based programming, and template programming. Stresses good programming practices including complete program documentation. Course Schedule

AIRC 67 Energy Management

4 Units (Degree Applicable) Lecture: 72

Principles and practical applications for energy cost reduction and strategies. Emphasis on the use of Building Automation Systems to achieve control over energy costs. Includes theory for sustainable Green Building Technologies with introduction to Energy Star Buildings and LEED programs. Course Schedule

AIRC 95 Work Experience in Air Conditioning and Refrigeration 1-4 Units (Degree Applicable)

(May be taken for Pass/No Pass only) Lab: 75-300

Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the College Catalog.

Work experience in Air Conditioning & Refrigeration at an approved work site with related classroom instruction. This work experience may be during a regular semester or during a summer session. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Instructor approval required. Course Schedule

Aircraft Maintenance Technology (AIRM)

AIRM 65A Aircraft Powerplant Maintenance Technology 13 Units (Degree Applicable, CSU) Lecture: 108 Lab: 376

Theory and overhaul of aircraft reciprocating and turbine powerplants. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 65B Aircraft Powerplant Maintenance Technology: Reciprocating & Turbine

13 Units (Degree Applicable, CSU) Lecture: 108 Lab: 376 Prerequisite: AIRM 65A or (AIRM 95A and AIRM 95B and AIRM 96A and AIRM 96B)

Reciprocating and turbine engine systems and components. Approved and required for the Federal Aviation Administration (FAA) powerplant certification and Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 66A Aircraft Airframe Maintenance Structures

13 Units (Degree Applicable, CSU) Lecture: 108 Lab: 376

This course is approved by the Federal Aviation Administration FAA and required for all Aircraft Powerplant and Airframe Maintenance Technology majors. Topics span aerodynamics, design theory, construction, inspection, maintenance, repair and alteration of aircraft airframe structures. Course Schedule

AIRM 66B Airframe Maintenance Technology

13 Units (Degree Applicable, CSU) Lecture: 108 Lab: 376 Prerequisite: AIRM 66A OR (AIRM 90A and AIRM 90B and AIRM 91A and AIRM 91B)

Airframe systems and components. Approved and required for the Federal Aviation Administration (FAA) and required airframe certification and the Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 70A Aircraft Maintenance Electricity and Electronics

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Advisory: AIRM 71

Electrical theory, series and parallel circuits, batteries, and electrical measuring instruments. Required for Federal Aviation Administration (FAA) certification. **Course Schedule**

AIRM 70B Aircraft Maintenance Electricity and Electronics

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Advisory: AIRM 70A and AIRM 71

Principles of alternating current electricity with emphasis on components and circuits. Required for FAA certification. **Course Schedule**

AIRM 71 Aviation Maintenance Science

6 Units (Degree Applicable) Lecture: 108

Federal aviation regulations, interpretation of aircraft drawings, basic physics, technical mathematics, and aircraft weight and balance computations. FAA approved course required of all aircraft powerplant and airframe maintenance technology majors. **Course Schedule**

AIRM 72 Aircraft Materials and Processes

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Advisory: AIRM 71 AND AIRM 73

Part 147 Federal Aviation Administration (FAA) approved course covering aviation materials, non-destructive testing, basic heat-treating and machining. **Course Schedule**

AIRM 73 Aircraft Welding

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Advisory: AIRM 71 or AIRM 72

Theory and techniques of gas and inert gas welding used in aircraft construction and repair. Required for Federal Aviation Administration (FAA) airframe and powerplant certification. **Course Schedule**

AIRM 74 Aircraft Maintenance Technology - Work Experience

2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 120-150 Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B

Combines aircraft maintenance experience in addition to classroom instruction for college credit. Two units of credit will be earned as a result of 120 unpaid or 150 paid work hours. The employer/evaluator will have the student perform aircraft maintenance work under direct supervision at a maintenance facility. **Course Schedule**

AIRM 80 Laboratory Studies in Aircraft Maintenance Technology

0.5-1 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 27-54

Additional lab instruction for students lacking Federal Aviation Authority (FAA) mandated hours to complete a training certificate, required remediation of program modules or laboratory assignments. Course Schedule

AIRM 90A Airframe Maintenance Technology

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

A Federal Aviation Administration (FAA) approved course covering aircraft flight, flight control and construction methods and procedures Course Schedule

AIRM 90B Airframe Maintenance Technology: Structure and Design

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: AIRM 90A or AIRM 66B

Aircraft structural designs, station numbers, aviation nomenclature and definitions. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 91A Airframe Maintenance Technology

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM90A and AIRM 90B) or AIRM 66B

Aircraft wood structures, coverings, finishes, and maintenance. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. **Course Schedule**

AIRM 91B Airframe Maintenance Technology: Aluminum Repair

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 90A and AIRM 90B and AIRM 91A) or AIRM 66

Metals and composite materials used in aircraft construction, maintenance, and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. **Course Schedule**

AIRM 92A Airframe Maintenance Technology: Hydraulics & Pneu

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 90A and AIRM 90B and AIRM 91A and AIRM 91B) or AIRM 66A

Aircraft hydraulic and pneumatic power systems, landing gear and wheel and brake systems. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Power Plant Maintenance Technology major.

AIRM 92B Airframe Maintenance Systems 2

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: AIRM 92A or AIRM 66A

Aircraft warning systems, aircraft instrument systems and aircraft fuel storage and transfer systems. Approved by the FAA and required for the Aircraft Airframe and Powerplant Maintenance Technology major. Course Schedule

AIRM 93A Airframe Maintenance Technology: Systems

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 92A and AIRM 92B) or AIRM 66A

Federal Aviation Administration (FAA) approved course covering aircraft cabin heating and cooling, communication and navigation systems, and ice and rain control systems in small and large aircraft. Course Schedule

AIRM 93B Airframe Maintenance Technology: Fire Suppression

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 92A and AIRM 92B and AIRM 93A) or AIRM 66A

Aircraft fire detection and suppression systems. Aircraft inspection requirements and procedures. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 95A Aircraft Powerplant Maintenance Technology

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Advisory: AIRM 70A, AIRM 70B, AIRM 71,AIRM 72, AIRM 73

FAA approved course covering piston powerplant theory. Includes calculations and construction methods. Course Schedule

AIRM 95B Aircraft Powerplant Maintenance Technology: Reciprocating Engines

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: AIRM 95A or AIRM 65B

Federal Aviation Administration (FAA) approved course covering piston engine overhaul, inspection, and troubleshooting procedures. Course Schedule

AIRM 96A Aircraft Powerplant Maintenance Technology: Turbine Engines

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 95A and AIRM 95B) or AIRM 65B

Aircraft turbine engine history, construction, thrust formulas and turbine engine types. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification. Course Schedule

AIRM 96B Aircraft Powerplant Maintenance Technology: Propellers 3 Units (Degree Applicable)

Lecture: 36 Lab: 71 Prerequisite: (AIRM 95A and AIRM 95B and AIRM 96A) or AIRM 65B

Propeller theory, nomenclature, application, constant speed devices, and propeller controls. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification. Course Schedule

AIRM 97A Aircraft Powerplant Maintenance Technology: Instrumentation 3 Units (Degree Applicable)

Lecture: 36 Lab: 71 Prerequisite: (AIRM 95A and AIRM 95B and AIRM 96A and AIRM96B) or AIRM 65B

Federal Aviation Administration (FAA) approved course covering instrumentation and smoke and fire detection/suppression systems used in small and large aircraft. Includes engine starting systems and electrical power generating devices. Course Schedule

AIRM 97B Aircraft Powerplant Maintenance Technology: Fuel Meter Systems

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: AIRM 97A or AIRM 65A

Reciprocating engine and turbine engine fuels, fuel metering devices, and system operation. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 98A Aircraft Powerplant Maintenance Technology: Ignition Systems

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 97A and AIRM 97B) or AIRM 65A

Reciprocating and turbine engine ignition system theory and maintenance. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

AIRM 98B Aircraft Powerplant Maintenance Technology: Lubricating Systems

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: (AIRM 97A and AIRM 97B and AIRM 98A) or AIRM 65A

Reciprocating and turbine engine lubricants and lubricating systems. Approved by the Federal Aviation Administration (FAA) and required for the Airframe and Aircraft Powerplant Maintenance Technology major. Course Schedule

Air Traffic Control (AIRT)

AIRT 151 Aircraft Recognition and Performance

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 23 or AERO 100

Formerly AIRT 41. Designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). Students will learn to recognize the distinctive features of aircraft, identify types of aircraft, classify aircraft as to FAA category and class, and analyze aircraft for performance characteristics required for air traffic control separation. Commercial Pilot majors are encouraged to take the class as an elective course. Course Schedule

AIRT 201 Terminal Air Traffic Control

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 23 or AERO 100 and AIRT 41 or AIRT 151

Formerly AIRT 42A. Designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). Students will learn about aircraft operation in the National Airspace System, control tower operations, terminal radar control, radio communication techniques and phraseology, and responding to emergencies. Course Schedule

AIRT 201L Air Traffic Control Laboratory

1 Unit (Degree Applicable) Lab: 54 Advisory: AERO 100

Formerly AIRT 51. Concepts, procedures, and skills related to air traffic control. Microphone technique, voice control, phraseology, facility and interfacility coordination, strip markings, airport traffic control, weather observing, and control tower functions. Course Schedule

AIRT 203 Enroute Air Traffic Control

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: AERO 23 or AERO 100 and AIRT 41 or AIRT 151

Formerly AIRT 42B. Enroute air traffic control operations in the National Airspace System. Includes radar and non-radar separation rules, enroute air traffic control clearances, emergencies and search & rescue, and future air traffic control technologies. This course is designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). Course Schedule

AIRT 203L Enroute Radar Laboratory

1 Unit (Degree Applicable) Lab: 54 Advisory: AERO 100

Formerly AIRT 55. Simulation of an air traffic control radar facility concentrating on air route traffic control, and approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards. Course Schedule

AIRT 251 Air Traffic Control Team Skills

1.5 Units (Degree Applicable, CSU) Lecture: 27 Advisory: AIRT 201 or AIRT 42A

Formerly AIRT 43. Leadership skills for aviation professionals, with emphasis on FAA Crew Resource Management. This course will introduce students to the skills required to work in an aviation group environment. Students will be able to identify personality types and temperaments, analyze skills necessary to manage and improve individual performance, work effectively in the team environment, and recognize human factors that affect air traffic control, identify "threat and error" countermeasures. Course Schedule

AIRT 253 Work Experience in Air Traffic Control

1 Unit (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75 Prerequisite: Compliance with Work Experience regulations as designated

in the College Catalog

Formerly AIRT 47. On-the-job experience in an approved FAA work station. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Course Schedule

Alcohol Drug Counseling (AD)

AD 1 Alcohol/Drug Dependency

3 Units (Degree Applicable, CSU) Lecture: 54

Presents an overview of alcohol and chemical dependencies and ramifications. Explores the impact these dependencies have upon the individual's social, psychological, economic, physiological well-being, community and family concerns. Examines the "myths," images, and stereotypes about substances and substance abusers. Explores various approaches to recovery. Includes familiarization with terms.

Course Schedule

AD 2 Physiological Effects of Alcohol/Drugs

3 Units (Degree Applicable, CSU) Lecture: 54

Examines effects of alcohol and drugs on the human body. Includes tolerance, habituation, cross-tolerance and synergistic effect. Course Schedule

AD 3 Chemical Dependency: Intervention, Treatment and Recovery 3 Units (Degree Applicable, CSU) Lecture: 54

Examines techniques used in chemical dependency treatment. Analyzes types of treatment programs and the essentials of recovery. Course Schedule

AD 4 Issues in Domestic Violence

3 Units (Degree Applicable)

Lecture: 54

History, law, and psychology of domestic violence. Cultural, social aspects, and relationship to substance abuse explored. Course Schedule

AD 5 Chemical Dependency: Prevention and Education

1.5 Units (Degree Applicable, CSU) Lecture: 27

Reviews and examines drug prevention effectiveness, at both the private and public level. Appraises personal attitudes, past and present, and their influence on societal norms. Evaluates current prevention programs and the necessary steps for developing, funding and managing a program. Course Schedule

AD 6 Dual Diagnosis

3 Units (Degree Applicable, CSU) Lecture: 54

Overview of the complex interactions of mental disorders and chemical dependency. Reviews and examines the key areas involving dual diagnosis: definition, diagnosis, treatment and aftercare. Course Schedule

AD 8 Group Process and Leadership

3 Units (Degree Applicable) Lecture: 54 Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently

Introduces the theory and practice of group counseling, the group process and dynamics of group interaction. Course Schedule

AD 9 Family Counseling

3 Units (Degree Applicable) Lecture: 54 Advisory: (AD 1 and AD 2 and AD 3) taken prior AND (AD 4 and AD 5 and AD 6) taken prior or concurrently

Theory and practice of family counseling, family systems and dynamics, effects of chemical dependency, and counseling techniques. Course Schedule

AD 10 Client Record and Documentation

1.5 Units (Degree Applicable) Lecture: 27 Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently

Documentation methods required by government regulatory bodies in clinical records. Emphasis on biopsychosocial history. Course Schedule

AD 11 Techniques of Intervention and Referral

3 Units (Degree Applicable) Lecture: 54 Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently

Practice techniques used for crisis intervention, counseling, intake and referral. Experiential format, allows participants to practice skills in attentive listening, and responding to levels of client communication. Course Schedule

AD 13 Internship/Seminar

4 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lecture: 27 Lab: 126 Advisory: AD 1, AD 2, AD 3, AD 4, AD 5, AD 6, and six units of Restricted Electives taken prior and AD 8, AD 9, AD 10, AD 11 taken prior or concurrently

The first of a two-semester sequence which places students in Alcohol/ Drug Abuse agencies and organizations. This first semester emphasizes growth in self-awareness and professionalism, interviewing skills and group process skills. Course Schedule

AD 14 Advanced Internship/Seminar

4 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lecture: 27 Lab: 126 Prerequisite: AD 10 and AD 13

Second semester course focusing on the application of values, concepts and skills learned to actual process of helping chemically dependent persons.

Course Schedule

American Language (AMLA)

AMLA 21S Accent Reduction

2 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Pronunciation for non-native speakers with emphasis on analysis of individual strengths and weaknesses. Focus on improving articulation, stress, intonation patterns, and listening. Course Schedule

AMLA 22S American Language Interpersonal Communication

2 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Enhances ability of non-native speakers to communicate in personal and academic situations. Emphasis on grammatical accuracy and sophistication as well as increasing confidence in communication. Course Schedule

AMLA 23S American Language Formal Speaking

2 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Advisory: Eligibility for AMLA 43W

Enhances the ability of non-native speakers to listen effectively and speak formally. Emphasis is on note taking, outlining, organizing speeches, and verbal articulation of ideas. Course Schedule

AMLA 24 Idiomatic English

2 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Advisory: Eligibility for AMLA 42W

Intermediate course in the study of idiomatic language, including common American idioms and proverbs, as used in everyday language situations. Course Schedule

AMLA 31R American Language Basic Reading

4 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Advisory: Eligibility for AMLA 41W

Basic reading and vocabulary for non-native speakers. Course Schedule

AMLA 32R American Language Intermediate Reading 4 Units (Not Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Advisory: Eligibility for AMLA 42W

Intermediate reading and vocabulary for non-native speakers. Course Schedule

AMLA 33R American Language Advanced Reading

4 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Advisory: Eligibility for AMLA 43W

Advanced reading and vocabulary for non-native speakers. Course Schedule

AMLA 41W American Language Basic Writing

4 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: Satisfactory score on the English Placement Test or successful completion of noncredit ESL Level 4 Advisory: AMLA 31R taken previously or concurrently

Basic grammar and writing for non-native speakers. Course Schedule

AMLA 42W American Language Intermediate Writing 4 Units (Not Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 72

Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 41W or noncredit ESL Level 5 or 6 or VESL

Advisory: AMLA 32R taken prior or concurrently

Intermediate grammar and writing for non-native speakers. Course Schedule

AMLA 43W American Language Advanced Writing

4 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 42W Advisory: AMLA 33R taken prior or concurrently

Advanced grammar and writing for non-native speakers. Course Schedule

AMLA 56 American Language Nouns and Articles

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Concentrates on count and non-count nouns, article usage and other determiners for non-native learners of English. Writing practice and exercises will emphasize correct usage of these structures in writing and speaking. Course Schedule

Sourse Schedule

AMLA 57 American Language Verb Review I

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Concentrates on verb tense, form, and use for non-native learners of English. Practice in present, past, and future verb tense forms, meaning, and use in both spoken and written English, with special emphasis on writing for college courses. Course Schedule

AMLA 58 American Language Verb Review II

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Advanced work on modals, passive voice, passive modals, and conditionals for non-native English students. Exercises and writing practice will emphasize improved verb usage in writing. Course Schedule

AMLA 59 American Language Prepositions

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Spoken and written practice in prepositions for non-native English learners. Students will analyze prepositions and idiomatic expressions through reading and will apply their knowledge to written work. Course Schedule

AMLA 60 American Language Verb Review III

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Advanced work on gerunds, infinitives and participles for non-native English students. Exercises and writing practice will emphasize improved verb usage in writing. Course Schedule

AMLA 61 American Language Word Forms

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Spoken and written practice in noun, verb, adjective, and adverb word forms for non-native English students. Course Schedule

Anatomy & Physiology (ANAT)

ANAT 10A Introductory Human Anatomy

4 Units (Degree Applicable, CSU, UC, C-ID #: BIOL 110B) Lecture: 54 Lab: 54 Advisory: BIOL 1

Macroscopic and microscopic structures of the human body. Emphasis on cell structures, skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory, endocrine, and reproductive systems. Comparison of normal, aging, and diseased structures. Course Schedule

ANAT 10B Introductory Human Physiology

4 Units (Degree Applicable, CSU, UC, C-ID #: BIOL 120B) Lecture: 54 Lab: 54 Prerequisite: ANAT 10A or ANAT 35 Advisory: (CHEM 10 or CHEM 40) and BIOL 1

Integrated study of the function of and interaction between the skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory (including electrolyte and acid-base balance), endocrine, and reproductive systems (including human genetics and embryology). Course Schedule

ANAT 35 Human Anatomy

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Prerequisite: BIOL 1 or BIOL 4 or BIOL 4H

Structure of the organ systems at the gross, subgross, and microscopic levels based on human material and dissection of the cat. Designed to serve as an introduction to vertebrate embryology. Course Schedule

ANAT 36 Human Physiology

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Prerequisite: BIOL 1 or BIOL 4 or BIOL 4H and ANAT 35 and CHEM 10 or CHEM 40

Human physiology at the cellular and molecular levels covering muscular, nervous, circulatory, respiratory, renal, digestive, endocrine, and reproductive systems. Includes regulation and integration of organ systems where appropriate. Course Schedule

ANAT 40A Human Prosection

2 Units (Degree Applicable, CSU) Lab: 108 Prerequisite: ANAT 35

Techniques for human prosection. Regional exploration of superficial and deep human muscles at the gross level. Anatomy 40A and 40B must be taken in sequence in order to receive credit for college level prosection. Course Schedule

ANAT 40B Human Prosection

2 Units (Degree Applicable, CSU) Lab: 108 Prerequisite: ANAT 40A

Techniques for human prosection. Regional exploration of the human organ systems at the gross level with emphasis on the organs, blood vessels and nerves of the body cavities. Course Schedule

ANAT 99 Special Projects in Anatomy

2 Units (Not Degree Applicable, CSU) Lecture: 36

Offers selected students recognition for their academic interest in anatomy and the opportunity to explore the discipline of anatomy in greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration. Instructor's authorization is required to enroll in this course.

Course Schedule

Anthropology (ANTH)

ANTH 1 Biological Anthropology

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Evolutionary biology of primates with particular emphasis on hominid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed. Course Schedule

ANTH 1H Biological Anthropology - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Evolutionary biology of primates with particular emphasis on hominid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid paleontological record are stressed. An honors course designed to provide an enriched experience. Students may not receive credit for both ANTH 1 and ANTH 1H. Course Schedule

ANTH 1L Biological Anthropology Laboratory

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: ANTH 1 or ANTH 1H (May have been taken previously)

Scientific study of human evolution. Students will generate and test hypotheses using the techniques and materials of biological anthropology. Includes genetic observations and calculations, osteological techniques and measurements, and primate behavior observations. One field trip to a zoo for primate observation is required. Course Schedule

ANTH 3 Archaeology

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: Eligibility for ENGL 1A Advisory: READ 90

Aims, methods and ethics of archaeological research and their application to the archaeological record, in contrast to popular depictions of archaeology. Evolution of culture from the earliest stone toolmakers to the primary civilizations of the Old and New Worlds, emphasizing invention and spread of agriculture and the impact of this change on prehistoric cultures. Course Schedule

ANTH 4 Archaeology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: Eligibility for ENGL 1A Advisory: Eligibility for READ 90

Concepts, theories, data, models, and ethics of anthropological archaeology that contribute to our knowledge of the human past. The nature of scientific inquiry; history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. Hands-on learning in lab component. Course Schedule

ANTH 5 Principles of Cultural Anthropology

3 Units (Degree Applicable, CSU, UC) Lecture: 54

The anthropological approach to the study of human behavior from a cross cultural, comparative, and an evolutionary perspective. An exploration into the languages, economics, sociopolitical systems, religions, and world views of diverse world cultures. A technical presentation is stressed as this course is designed for Social Sciences majors.

Course Schedule

ANTH 22 General Cultural Anthropology

3 Units (Degree Applicable, CSU, UC) Lecture: 54

An introductory course to explore the nature of culture and how cultural anthropologists study cultural phenomena such as language, personality, subsistence, economics, social and political organization, marriage, kinship systems, religion, the arts, and culture change. A substantial amount of case material will be drawn from at least three of the following: African Americans, indigenous peoples of the United States, Asian Americans, Chicano/Latino Americans, and European Americans. This course may meet the cultural diversity requirement at transfer universities. Course Schedule

ANTH 30 The Native American

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A Advisory: Eligibility for READ 100

Prehistory and history of Native Americans. Overview of the classification system used to organize particular groups into culture areas related to adaptive strategies. Identification of world contributions and contemporary issues for modern Native Americans. Course Schedule

ANTH 99 Special Projects in Anthropology

2 Units (Degree Applicable, CSU) Lecture: 36

To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Course Schedule

Arabic (ARAB)

ARAB 1 Elementary Arabic 4 Units (Degree Applicable, CSU, UC) Lecture: 72

Intended for students with little or no previous exposure to Arabic. Begins to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Focuses on mastery of Arabic script, pronunciation, simple grammatical structures, and basic vocabulary, along with an introduction to Arab culture. Course Schedule

ARAB 2 Continuing Elementary Arabic

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: ARAB 1 or equivalent

Continues to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Emphasizes verbs, word patterns, and vocabulary building; introduces short authentic texts. Includes some exposure to Formal Spoken Arabic. Course Schedule

Architectural Technology (ARCH)

ARCH 101 Design I - Elements of Design

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Corequisite: ARCH 121

Design and design process including conceptualization, visualization, form making, presentation, expression, and site analysis of physical, contextual, and cultural aspects of design and the urban environment. Portfolio will be produced. Field trips are required. Course Schedule

ARCH 102 Design II - Architectural Design

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Corequisite: ARCH 122 or ARCH 23 Advisory:(ARCH 10 and ARCH 11) or (ARCH 101 and ARCH 141)

Formerly ARCH 21. Second level architectural design studio with a focus on site analysis, design conceptualization, form making, program development and presentation. Emphasis is on critical thinking and problem solving integrated with the artistic design process. Investigations will stress symbolic expression, aesthetics, craftsmanship, technical skills, vocabulary and physical object making through the design of multi-family residential, institutional and cultural buildings. Field trips are required. Course Schedule

ARCH 121 CADD and Digital Design Media Level I

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Corequisite: ARCH 101

CADD (Computer Aided Design and Drafting) Level 1 and computer applications in architecture, engineering, and related fields including spreadsheet, drawing, and presentation application. Field trips required. Course Schedule

ARCH 122 Architectural Presentations

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Corequisite: ARCH 21 or ARCH 102 Advisory: (ARCH 10 and ARCH 11) or (ARCH 101 and ARCH 141)

Formerly ARCH 23. Analysis and preparation of architectural presentation projects, including schematic and final design, architectural models, oral presentation techniques, board layouts using hand-drawn and computer-aided techniques, and development of project portfolio. Field trips required. Course Schedule

ARCH 141 Design Drawing and Communication

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54

Formerly ARCH 11. Architectural drawing techniques including graphic standards, scales, orthographic, paraline, and perspective projections. Field trips required. Course Schedule

ARCH 142 Architectural Materials and Specifications

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: Eligibility for MATH 51

Formerly ARCH 12. Building materials and specifications used in architecture and construction. Includes a lab component of common building material applications. Field trips required. Course Schedule

ARCH 145 Building and Zoning Codes

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: ARCH 141 or ARCH 11

Formerly ARCH 14. Building and zoning codes, including code requirements related to architectural design and construction documentation. Process of obtaining design approvals and building permits from proper authorities having jurisdiction. Course Schedule

ARCH 146 Architectural Drawings and Fabrications

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Advisory: ARCH 141 (formerly ARCH 11)

Formerly ARCH 15. Architectural working drawings and construction documents for light frame construction. Field trips required. Course Schedule

ARCH 147 Architectural CAD and BIM

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Advisory: (ARCH 141 or ARCH 11) or (ARCH 121 or ARCH 16)

Formerly ARCH 18. 3-D Computer Aided Design and Drafting (CAD) and Building Information Modeling (BIM) for architectural design and design development. Portfolio of 3-D building models and extracted 2-D drawings will be produced. Field trips required. Course Schedule

ARCH 201 Design III - Environmental Design

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Advisory: (ARCH 21 or ARCH 102) or (ARCH 23 or ARCH 122) or equivalent experience

Formerly ARCH 27. Theory and principles of environmental design as applied to architecture, landscape architecture, urban design, urban planning and (civil) engineering. Portfolio will be produced. Field trips required.

ARCH 202 Design IV - Advanced Project

4 Units (Degree Applicable, CSU)

Lecture: 54 Lab: 54

Advisory: (ARCH 23 or ARCH 122) and (ARCH 27 or ARCH 201) Formerly ARCH 29. Fourth level architectural design studio focusing on sustainability, energy efficiency and environmental conservation. Emphasis is on critical thinking and problem solving involving material selection, envelope design, advance space planning and the development of designs from complex building programs. Investigations will stress logical organization, craftsmanship, technical skills, vocabulary and physical object making through the design complex building types. Field trips are required.

Course Schedule

ARCH 221 Architectural Illustration

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Advisory: ARCH 141 or ARCH 11

Formerly ARCH 13. Architectural and interior illustration including perspective drawing, sketching, shades and shadows, entourage, and color application utilizing various media and development of project portfolio. Field trips required. Course Schedule

ARCH 222 Advanced Digital Design, Illustration and Animation

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Advisory: ARCH 18 or ARCH 147

Formerly ARCH 28. Architectural Computer Aided Design (CAD), 3 Dimensional (3-D) illustration, rendering and animation. Virtual walkthrough and fly-through videos of interior and exterior 3-D models with photo-realistic materials and lighting will be produced. Course Schedule

ARCH 247 Architectural CAD Working Drawings

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Advisory: (ARCH 15 or ARCH 146) or (ARCH 147 or ARCH 18)

Formerly ARCH 26. Architectural Computer Aided Design (CAD) for design development and working drawings. Portfolio of working drawings using Building Information Modeling (BIM) and CAD applications of integrated 3-D and 2-D BIM/CAD models will be produced. Field trips required. Course Schedule

ARCH 250 World Architecture I

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Formerly ARCH 31. Development of world architecture from pre-history to the Middle Ages. Influence of geography, religion, and socio-economic background on architecture from ancient Egypt, Europe through the Middle Ages, and classic civilizations of Asia and the Americas. Field trips required.

Course Schedule

ARCH 251 World Architecture II

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Formerly ARCH 32. Development of world architecture from the Renaissance to the present. Influence of environment, religion and socioeconomic movements on modern architecture. Field trips required. Course Schedule

ARCH 290 Architectural Work Experience

1-2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 60-150 Prerequisite: Compliance with work experience regulations as designated in the College Catalog

Provide work experience in architecture at an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid)clock hours per semester of supervised work is required for each unit of credit. Field trips are required Course Schedule

Art: Animation (ANIM)

ANIM 100 Digital Paint and Ink 3 Units (Degree Applicable) Lecture: 36 Lab: 71

Illustration skills used in digital animation and game production. Focuses on digital illustration tools, including painting and drawing using vector and bitmap for animation environments. Course Schedule

ANIM 101A Drawing - Gesture and Figure

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71

Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops perceptual and technical skills for capturing basic visual mechanics of motion and gesture. Course Schedule

ANIM 101B Figure Gesture - Design

3 Units (Degree Applicable) Lecture: 36 Prerequisite: ANIM 101A

Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops elements of design for the purposes of visual communication and storytelling. Course Schedule

ANIM 101C Figure Gesture Expressive Design

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 101A

Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops personal interpretation, individual expression, and media exploration. Course Schedule

ANIM 104 Drawing Fundamentals

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71

Creative expression through the use of drawing media and techniques. Emphasis is placed on use of construction, light logic, atmospheric and linear perspective, and gesture directed toward animation. Includes basic drawing skills and methods of achieving compositional integrity through objective analysis and synthesis. May require off-campus assignments. Course Schedule

ANIM 107 Figure in Motion

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 101A or ARTD 17A

Drawing human figures in motion. Anatomical landmarks, proportion, light and shadow, line composition, figure-ground relationship, the interaction of form and content, and the expressive potential of the human figure will be explored.

Course Schedule

ANIM 108 Principles of Animation

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71

Principles of drawing for traditional animation concentrating on the mechanics of movement, timing, and emotion for the creation of expressive line drawings. Course Schedule

ANIM 109 Advanced Principles of Animation

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 108

Advanced principles of animation including mechanics of motion, weighted movement, lip sync and expression applied to story, staging, and character development. Focus will be on the animated film process from script to storyboards, timing sheets, key posing, inbetweening and clean-up through the completion of a final animation. Course Schedule

ANIM 111A Animal Drawing

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: ARTD 15A or ANIM 104

Explores traditional and contemporary approaches to sketching and drawing animals. Gesture, anatomical structure, proportion, line, and action analysis will be explored. Requires several off-campus field trips. Course Schedule

ANIM 111B Animal Drawing

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: ANIM 111A

Contemporary and traditional approaches to sketching animals using drawing techniques for rapid visualization. Emphasizes and develops elements of design for the purposes of visual communication and storytelling. Requires several off-campus field trips. Course Schedule

ANIM 115 Storyboarding

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ANIM 100

Storyboarding with emphasis on storytelling, cinematography, drawing, and notation as it relates to the animation industry. Course Schedule

ANIM 116 Character Development

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: ARTD 15A or ANIM 104

Drawing and development of characters for animation. Observation of details for character attitude, personality, movement, posing, dialogue, mouth positions, body language, and consistent drawing techniques for model sheets will be explored. Course Schedule

ANIM 117 Animation Background Layout

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ANIM 115 or ARTD 16

Drawing and painting techniques as applied to layout and background design.

Course Schedule

ANIM 130 Introduction to 3D Modeling

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Three-dimensional (3D) modeling techniques using animation and gaming industry-standard software. Course Schedule

ANIM 131 Introduction to Gaming

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71

The field of game design including the principles, tools, and strategies for designing various types of games. Course Schedule

ANIM 132 Intermediate 3D Modeling

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ANIM 130 and ANIM 100 Advisory: ANIM 104

3D modeling and texturing methods used in the film and game industries using Maya software. Topics covered include UV unwrapping, Photoshop texture painting, and organic modeling techniques. Course Schedule

ANIM 136 Animation Environment and Level Design

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 130 and ANIM 132

3D digital environment including designing, modeling, texturing, and lighting for computer graphic games, television programs, or films. Includes environment levels for computer graphic games. Course Schedule

ANIM 137A Work Experience in New Digital Media

1-3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-225 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog AND ANIM 132

This course provides college credit and instructional guidance in conjunction with work experience in areas of New Digital Media at an approved work site related to a certificate or degree program of study. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Instructor approval required. Course Schedule

ANIM 141 2D Game Level Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ANIM 131

Design of game levels based upon storytelling, platform and theme. Includes asset development of background, user interface, and character art. Course Schedule

ANIM 145 Advanced 3D Modeling

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: ANIM 132

3D modeling focusing on creating humanoids, animals, and creatures for Animation and Gaming industries. Course Schedule

ANIM 146 Advanced 3-D Animation

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 130 Advisory: ANIM 132

3D character animation principles and procedures used in computer graphics, games, film, and television. Includes walk, run, and action sequences for rigged characters using graph editor. Course Schedule

ANIM 148 Demo Reel

3 Units (Degree Applicable) Lecture: 36 Lab: 71

Prerequisite: Completion of a minimum of 9 semester units in one of the following programs: Graphic Design, Illustration, Animation, Web Design, Architectural Design, Art, Fashion Merchandising, Industrial Design, Interior Design, or Photography.

Production of a demo reel and portfolio representative of interest, strength and skills for entry into animation fields, professional schools or baccalaureate institutions. Course Schedule

ANIM 149 3-D Character Rigging

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 145

The principles, techniques and processes of 3D character rigging. Character Rigging is the industry technique of setting up controls on a 3D mesh so that it is animatable. The principles, techniques and processes of 3D character rigging as done primarily for computer games and movie industry will be explored. Building a set of animatable character rigs built using forward kinematics, inverse kinematics, constraints, expressions, blend shapes among other techniques. No prior knowledge of rigging is necessary for this class. Course Schedule

ANIM 151 Game Prototype Production

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 131

Creation of game prototypes based upon specific game features and mechanics. Includes the four main game production cycles of: Designing the game, building the art, technical production, and marketing of the game.

Course Schedule

ANIM 167 Visual Development

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTC 163 or (ANIM 101A AND ARTD 16)

Development of conceptual designs for illustration in video games, film, animation, and comic books, using composition, shape, value, and color as visual tools for storytelling. Students cannot receive credit for both ARTC 167 and ANIM 167. Course Schedule

ANIM 172 Motion Graphics, Compositing and Visual Effects

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 or ANIM 100

Elements of motion graphics and visual effects including design, typography, animation, compositing, and editing in a production environment (i.e. TV, Film, DVD, or Web). Focuses on using Adobe After Effects and other industry standard software. ANIM 172 and ARTC 272 cannot both be taken for credit. Course Schedule

ANIM 175 Digital Animation

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ANIM 100 or ARTC 100

Principles of animation using digital software for multimedia. Course Schedule

Art: Basic Studio Arts (ARTB)

ARTB 1 Understanding the Visual Arts

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Off-campus trips may be required. Students may not earn credit for both ARTB 1 and AHIS 1 or AHIS 1H. Course Schedule

ARTB 14 Basic Studio Arts

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: Eligibility for ENGL 68

Creative expression through the visual and applied arts. Painting, drawing, printmaking and sculpture are explored. May require field trips. Course Schedule

Art: Gallery & Professional Practices (ARTG)

ARTG 20 Art, Artists and Society 3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71

Art and artists studied through class lectures and required field trips. Public art display and exhibition design, with an overview of art movements, styles, symbols, theories and terms. Course Schedule

ARTG 21A Introduction to Exhibition Production

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTG 20 and Eligibility for ENGL 68

Concepts and hands-on applications of curatorial processes, management skills, and gallery operations. The professional side of the arts with emphasis on contemporary art, theories and media will be explored. Field trips required. Course Schedule

ARTG 21B Intermediate Exhibition Production

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTG 21A

Exhibition planning, research, operation and management. Art as a profession, with emphasis on historical and contemporary terms, theories, movements and media in the context of an art exhibition production. Field trips required. Course Schedule

ARTG 22A Exhibition Design and Art Gallery Operation Work Experience 1-3 Units (Degree Applicable) Lab: 75-225

Prerequisite: ARTG 21B

Provides on-the-job experience in exhibition design and art gallery operation at an approved work site related to the classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Course Schedule

Art: Graphic Design and Illustration (ARTC)

ARTC 100 Graphic Design I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Advisory: ARTD 15A and ARTD 20

Contemporary graphic design for the commercial art industry. Covers technology, creativity, design, and production. Focuses on using Adobe Photoshop to produce effective commercial art. Additional exposure to Adobe Illustrator and other professional production tools. Course Schedule

ARTC 120 Graphic Design II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 Corequisite: ARTD 20 (May be taken previously)

Graphic design concepts, theories, and strategies for the design and layout of printed commercial art. Covers typical printed products including advertisements, flyers, brochures, posters, newsletters, books, and catalogs. Focuses on using Adobe InDesign with additional exposure to Photoshop and Illustrator. Course Schedule

ARTC 140 Graphic Design III

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 and ARTD 20

Digital illustration, design, skills, and concepts working primarily with vector art. Focuses on using Adobe Illustrator as the primary development tool. Course Schedule

ARTC 160 Typography

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 Corequisite: ARTD 20 (may have been taken previously)

Design and use of basic letterforms, type families, characteristics, history, and principles of typography in graphic design. Traditional and digital skills for the art of typeface design, typographic layout, expressive typography, and conceptual thinking. Course Schedule

ARTC 163 Dynamic Sketching

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A or ANIM 104

Essential tools to conceptualize, communicate, and express creative ideas dynamically through the art of sketching. Emphasis on problem solving through the sketching process for illustrators, animators, entertainment designers, and fine artists. Course Schedule

ARTC 165 Illustration

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A or ANIM 104 Corequisite: ARTD 20 or ARTD 21 or ARTD 17A or ANIM 101A (any of which may have been taken previously)

Contemporary illustration with an emphasis on story, editorial, and advertising applications. Proper uses of illustrative rendering techniques in traditional drawing and painting media, paper, and their integration to electronic media. Using professional illustration software, peripherals, and color laser printing, students advance to produce more complex illustrations.

Course Schedule

ARTC 167 Visual Development

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTC 163 or (ANIM 101A AND ARTD 16)

Development of conceptual designs for illustration in video games, film, animation, and comic books, using composition, shape, value, and color as visual tools for storytelling. Students cannot receive credit for both ARTC 167 and ANIM 167. Course Schedule

ARTC 169 Contemporary Illustration

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A and (ARTD 25A or ARTC 165) Advisory: ANIM 101A

Development of visual concepts to create unique and provocative illustrations based on social, cultural, and political issues. Exploration of personal style and media with emphasis on contemporary art trends. Course Schedule

ARTC 200 Web Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 and ARTD 20

Design, usability, production and marketing of web sites using contemporary development methods including HTML 5 and CSS 3. Course Schedule

ARTC 210 Corporate Identity and Branding

3 Units (Not Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ARTC 140 and ARTC 160

Creative techniques, design theory, and process methods for developing effective logos, corporate identity systems, and brands. Course Schedule

ARTC 220 Graphic Design IV

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 and ARTD 20 Advisory: ARTC 140

Intermediate to advanced graphic design concepts, composition, photo editing, and photo retouching. Focuses on using Adobe Photoshop as the primary development tool. Course Schedule

ARTC 272 Motion Graphics, Compositing and Visual Effects 3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ARTC 100 or ANIM 100

Elements of motion graphics and visual effects including design, typography, animation, compositing, and editing in a production environment (i.e. TV, Film, DVD, or Web). Focuses on using Adobe After Effects and other industry standard software. ANIM 172 and ARTC 272 cannot both be taken for credit. Course Schedule

ARTC 290 Portfolio

3 Units (Degree Applicable) Lecture: 36 Lab: 71

Prerequisite: Completion of a minimum of 15 semester units in one of the following programs: Graphic Design, Illustration, Animation and Gaming, Architectural Design, Art, Fashion Merchandising, Industrial Design, Interior Design, or Photography.

Selection, preparation, and assembly of a portfolio, book, or package of works of art, including digital and multimedia formats, that represent individual interests and strengths of students from the visual arts disciplines for use in entering a four-year institution, professional art school, or professional field of choice. Also includes cover letter and resume preparation. The instructor will verify that the prerequisite has been met.

ARTC 299 Work Experience in Graphic Design

1-3 Units (Not Degree Applicable)3(May be taken for Pass/No Pass only)LetLab: 75-225PrPrerequisite: Compliance with Work Experience regulations as designatedWAdvisory: ARTC 100 AND ARTC 120 AND ARTC 140 AND ARTC 200 ANDthARTD 20 AND PHOT 5ct

Work experience in graphic design, web design, media design, advertising design, illustration or other graphic design related field in an approved work site. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Course Schedule

Art History (AHIS)

AHIS 1 Understanding the Visual Arts

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Off-campus trips may be required. Students may not earn credit for both ARTB 1 and AHIS 1. Course Schedule

AHIS 3 History of Women and Gender in Art

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women artists in the history of art and the representation of gender in a variety of cultures and time periods. Field trips may be required. Course Schedule

AHIS 3H History of Women and Gender in Art - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women artists in the history of art and the representation of gender in a variety of cultures and time periods. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 3 (formerly ARTA 3) and AHIS 3H. Field trips may be required. Course Schedule

AHIS 4 History of Western Art: Prehistoric Through Gothic

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTH 110) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Western art from the Prehistoric through Gothic periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. Course Schedule

AHIS 4H History of Western Art: Prehistoric Through Gothic - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTH 110) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Western art from the Prehistoric through Gothic periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. This is an honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 4 (formerly ARTA 4) and AHIS 4H. Course Schedule

AHIS 5 History of Western Art: Renaissance Through Modern

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTH 120) Lecture: 54

Prerequisite: Eligibility for ENGL 68

Western art from the Renaissance through Modern periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. Off-campus assignments may be required. Course Schedule

AHIS 5H History of Western Art: Renaissance Through Modern - Honors 3 Units (Degree Applicable, CSU, UC, C-ID #: ARTH 120) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Western art from the Renaissance through Modern periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 5 (formerly ARTA 5) and AHIS 5H. Off-campus assignments may be required. Course Schedule

AHIS 6 History of Modern Art

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored. Off campus trips may be required.

Course Schedule

AHIS 6H History of Modern Art - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored. Off campus trips may be required. Students may not receive credit for both AHIS 6 and AHIS 6H.

AHIS 8 History of Medieval Art and Architecture

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Medieval art and architecture in Europe and the Mediterranean. Jewish, Christian, and Islamic arts will be studied in their cultural contexts. Course Schedule

AHIS 9 History of Asian Art and Architecture

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Asian artistic traditions. Major monuments of painting, sculpture, architecture, and other visual art forms are studied within their religious and cultural contexts. Course Schedule

AHIS 10 A History of Greek and Roman Art and Architecture

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 68

A critical history of Greek and Roman art and architecture before 500 CE will be examined in their cultural contexts. Historical perceptions of Classical art and culture and their impact on Europe and America will be studied.

Course Schedule

AHIS 11 History of African, Oceanic, and Native American Art

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTH 140) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Traditional arts of African tribes and kingdoms, Oceania and Australia, and Native North America. Visual arts including painting, sculpture, architecture, body decoration, and ritual objects will be studied in their cultural contexts. Course Schedule

AHIS 12 History of Precolumbian Art and Architecture

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

The arts of Pre-Columbian Mesoamerica and Andean South America. Major monuments of sculpture, painting, architecture, ceramics, and textiles from civilizations including the Maya, Aztecs, and Inca will be studied in their cultural contexts. Course Schedule

AHIS 12H History of Precolumbian Art and Architecture - Honors 3 Units (Degree Applicable, CSU, UC)

Lecture: 54 Prerequisite: Acceptance into the Honors Program

The arts of Pre-Columbian Mesoamerica and Andean South America. Major monuments of sculpture, painting, architecture, ceramics, and textiles from civilizations including the Maya, Aztecs, and Inca will be studied in their cultural contexts. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 12 and AHIS 12H. Course Schedule

AHIS 14 Rome: The Ancient City

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

The art and culture of the ancient city of Rome. Major works of art and architecture will be studied in cultural and historical context. The importance of Rome and the Romans to later cultures will be explored. Course Schedule

AHIS 15 Culture and Art of Pompeii

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Art, architecture, and culture of Pompeii and neighboring cities destroyed in the volcanic eruption of 79 CE. Major monuments and archaeological remains will be studied in cultural and historical context. Course Schedule

AHIS 99 Special Projects in Art History

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Advisory: AHIS 1

Offers selected students recognition for their academic interest and ability, and the opportunity to explore the discipline in greater depth. The content of this course and the methods of study vary and depend on the particular project under consideration. Course Schedule

Art: Special Studio Arts (ARTZ)

ARTZ 50 Specialized Studio-Art Studies

2 Units (Degree Applicable, CSU) Lecture: 18 Lab: 54

Allows the student to pursue more advanced studio projects and experiments in an area of interest in Studio Arts specialization. Professor authorization needed prior to enrollment. Course Schedule

Art: Three-Dimensional Studio Arts (ARTS)

ARTS 22 Design: Three-Dimensional

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 101) Lecture: 36 Lab: 71 Prerequisite: Eligibility for ENGL 68

Develops perception and enhances design decision making within the three-dimensional world. Emphasis is placed on concept development and artistic expression utilizing principles and elements of threedimensional design as well as practical experiments with a variety of materials.

ARTS 30A Ceramics: Beginning I

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Clay, glazes and firing through lecture and projects in hand building and on the wheel. Emphasis on developing skills, vocabulary, analysis of form, function and aesthetics through projects, oral and written criticism. Field trip required. Course Schedule

ARTS 30B Ceramics: Beginning II

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTS 30A

Clay, glazes and firing. Emphasis is on repetition of forms, integrating hand building and wheel work for a single object, using up to 5 pounds of clay and developing vocabulary, skill and aesthetics. Field trip required. Course Schedule

ARTS 31 Ceramics: Advanced Studio

2 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: ARTS 30B

Advanced study of ceramics with emphasis on integrating form and surface with content, developing skill, and a personal style. Familiarity with kilns and variety of firing temperatures included. Field trips required. Course Schedule

ARTS 33 Ceramics: Hand Construction

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Clay, glazes and firing through projects that are hand built. Emphasis on developing skills, vocabulary and analysis of form, function, and craftsmanship through projects, discussion, oral and written criticism. Field trip required. Course Schedule

ARTS 34 The Sculptural Vessel

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 108 Prerequisite: ARTS 30A Advisory: ARTS 33

Advanced study of the ceramic vessel through the integration of technique, form, and content. Field trips required. Course Schedule

ARTS 40A Sculpture: Beginning

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Traditional and contemporary approaches to sculpture. Principles of sculptural design, concept development, technique and materials as an integral part of creative expression. Course Schedule

ARTS 40B Sculpture: Intermediate

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTS 40A

Sculpture projects in subtractive, additive and manipulative approaches. Course Schedule

ARTS 40C Sculpture: Carving

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTS 40A

Advanced projects in stone or wood carving offering the opportunity to further explore carving using hand, power and pneumatic tools. Emphasis is on individual interpretation. Course Schedule

ARTS 41A Sculpture: Life

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Modeling from the human figure with emphasis on composition, gesture, motion and human anatomy as it informs sculptural form. Development of perceptual and technical skills in clay modeling from the human figure. Course Schedule

ARTS 41B Sculpture: Intermediate Life

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: ARTS 41A

Sculptural study of the human figure with emphasis on artistic development and stylistic exploration of human anatomy using materials and techniques suitable for the human form. Course Schedule

ARTS 42 Sculpture: Mold Making

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71

Construction and use of flexible and plaster molds. Course Schedule

ARTS 46A Sculpture: Special Effects Makeup

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Advisory: ARTS 42

Modeling, molding, casting of makeup appliances and masks to the human figure. Course Schedule

ARTS 46B Sculpture: Special Effects Makeup

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTS 46A

Sculpture special effects modeling, molding and casting techniques and materials applied to create appliances for the full human head, torso or mouth.

Course Schedule

ARTS 99 Sculpture Special Studies

2 Units (Degree Applicable, CSU) Lab: 108 Prerequisite: ARTS 22 or ARTS 40A or ARTS 41A

Extended sculpture experiences supplementary to those available in sculpture courses. Allows the student to pursue more advanced and complex sculpture projects with emphasis on the development of an individual creative direction. Content of each course and the methods of study vary from semester to semester. Course Schedule

Art: Two-Dimensional Studio Arts (ARTD)

ARTD 15A Drawing: Beginning

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 110) Lecture: 36 Lab: 71

An entry level course emphasizing creative expression through the use of black and white drawing media. Emphasis is placed on basic drawing methods and skills, composition, and exploration of drawing media. Course Schedule

ARTD 15B Drawing: Intermediate

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 205) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A

Drawing course emphasizing perceptual and technical skills to compose in dry and fluid media. Uses the formal elements and principles in black, white and color in representational and expressionistic styles. Course Schedule

ARTD 16 Drawing: Perspective

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A or ANIM 104

Linear perspective drawing techniques for artists and illustrators. Course Schedule

ARTD 17A Drawing: Life

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 200) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A or ANIM 104

Contemporary and traditional approaches to drawing the human figure. Surface anatomy, proportion, line, light and shadow, composition, and the expressive potential of the human figure will be explored. Course Schedule

ARTD 17B Drawing: Life-Advanced

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: ARTD 17A

Contemporary and traditional approaches to drawing the human figure. Anatomy, proportion, line, light and shadow, composition, personal style and the expressive potential of the human figure will be explored. Course Schedule

ARTD 19A Figure Painting

3 Units (Degree Applicable) Lecture: 36 Lab: 71 Prerequisite: ARTD 17A

Painting the draped and nude figure with emphasis on observation and accurate representation. Through poses of various lengths, students will learn to depict the human figure using light logic, color palettes, compositional devices, and painting techniques. Course Schedule

ARTD 20 Design: Two-Dimensional

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 100) Lecture: 36 Lab: 71 Prerequisite: Eligibility for ENGL 68

Two-dimensional composition in achromatic value and color using the elements and principles of art and design. Emphasis on vocabulary, theory, and analysis of the formal elements and principles as they apply to studio projects in design for all disciplines of the arts. Off-campus assignments may be required. Course Schedule

ARTD 21 Design: Color and Composition

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 270) Lecture: 36 Lab: 71 Prerequisite: ARTD 20

Color theory and relationships of pigment and light. Emphasis on color harmonies, color matching, the effects of light, color perception and expression in their application to design and composition and as used in all disciplines of the arts. Course Schedule

ARTD 23A Drawing: Heads and Hands

1.5 Units (Degree Applicable, CSU, UC) Lecture: 18 Lab: 36 Prerequisite: ARTD 15A or ANIM 104

Contemporary and traditional approaches to constructing images of the human head and hands. Anatomy, proportion, light logic, composition, expression and the interaction of form and content. Course Schedule

ARTD 23B Drawing: Advanced Heads and Hands

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: ARTD 23A

Explores contemporary and traditional approaches to drawing the human head and hands. Emphasizes and develops techniques for rendering as well as capturing a likeness. Course Schedule

ARTD 23C Drawing: Expressive Heads and Hands

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: ARTD 23A

Explores contemporary and traditional approaches to sketching the human head and hands. Emphasis is placed on personal interpretation, individual expression, and media exploration. Course Schedule

ARTD 25A Beginning Painting I

3 Units (Degree Applicable, CSU, UC, C-ID #: ARTS 210) Lecture: 36 Lab: 71

Development of basic paint applications in various styles and subjects focusing on the formal elements of composition, light logic, and color. Course Schedule

ARTD 25B Beginning Painting II

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: ARTD 25A

Creation of large paintings through various styles including mixed media. Includes conceptualization and communication of ideas and solving compositional and technical painting problems with a variety of materials.

Course Schedule

ARTD 26A Intermediate Painting I

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: ARTD 25B

Creation of large paintings focusing on conceptual issues and art historical influences. Conceptualization of work is done by responding to current and past art movements and popular culture in order to create unique artworks. Course Schedule

ARTD 26B Intermediate Painting II

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71 Prerequisite: ARTD 26A

Development of a personal style focusing on conceptual issues and art historical influences. Students will conceptualize their work by responding to current and past art movements and popular culture in order to create unique artworks. Course Schedule

ARTD 27 Painting: Watercolor

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTD 15A OR ARTD 20 OR ARTD 25A

Watercolor techniques as they relate to compositional and technical processes in painting. Emphasis is placed upon painting skills as related to transparent watercolor methods as well as exploration into opaque and mixed-media approaches. Off-campus assignments may be required. Course Schedule

ARTD 43A Introduction to Printmaking

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Creative techniques in fine art printmaking using relief and intaglio processes. Emphasis is on developing skills, vocabulary and analysis of its aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required. Course Schedule

ARTD 43B Intermediate Printmaking in Intaglio and Relief

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTD 43A

Creation of complex editioned color prints in relief and intaglio printmaking from multiple matrices. Focus is on color registration, project collaboration, and learning how to combine different printing techniques in order to realize personal artistic expression. Field trips may be required.

Course Schedule

ARTD 44A Printmaking: Introduction to Lithography I

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Creative techniques in planographic printmaking using lithography. Emphasis is on skill development, vocabulary expansion, and critical analysis of aesthetics, historical context, and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required.

Course Schedule

ARTD 45A Printmaking: Introduction to Screenprinting

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Creative techniques in fine art screenprinting printmaking. Emphasis is on developing skills, vocabulary and critical understanding of the different stencil methods used in serigraphy. Screenprinting's aesthetics, historical context and role in contemporary society are examined through projects, discussion of craftsmanship and content by oral and written discussion and criticism. Field trips may be required. Course Schedule

ARTD 45B Printmaking: Intermediate Screenprinting

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 71 Prerequisite: ARTD 45A

Complex multi-color registration in screenprinting. Emphasis on registration of colors, exploration of printing on a variety of substrates, and integration of social and political issues in print design. Field trips may be required. Course Schedule

ARTD 46A Printmaking: Introduction to Monotype

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Painterly printmaking with a focus on monotype, monoprint, and collography printing. Field trips may be required. **Course Schedule**

ARTD 47A Printmaking: Photo and Alternative Processes

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 71

Contemporary printmaking approaches using a variety of light-sensitive polymer plates, carborundum plates, and other alternatives to classic printmaking processes. Images are prepared by digital and manual means and combine new processes with traditional methods. Emphasis is on teaching graphic art concepts to develop visual statements and commentary, vocabulary, technical skills, and analysis of printmaking aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required.

Course Schedule

ARTD 48A Letterpress Book Arts

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71

Personal vision and concepts applied to the book form as contemporary art, the history and aesthetics of the development of letterforms, creation of illustrative imagery, and Gutenberg letterpress printing. Emphasis is on the integration of word and picture in a historic and contemporary context to create visual statements and social commentary through group projects involving analysis of artist book aesthetics, historical context, cultural traditions, vocabulary, technique, discussion, and oral and written criticism. Field trips may be required. **Course Schedule**

ARTD 99 Figure Drawing Special Studies

2 Units (Degree Applicable) Lab: 108 Prerequisite: ARTD 17A or ANIM 101A or ARTD 23A

Offers selected students recognition for their academic interest in advanced and complex figure drawing and the opportunity to explore the development of an individual creative direction in greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration. Course Schedule

Astronomy (ASTR)

ASTR 5 Introduction to Astronomy 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

An introductory, non-technical survey of the Universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required. **Course Schedule**

ASTR 5H Introduction to Astronomy - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A; Acceptance into the Honors Program

An honors course designed to provide an enriched experience. An introductory, non-technical survey of the Universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required. Students may not receive credit for both ASTR 5H and ASTR 5.

Course Schedule

ASTR 5L Astronomical Observing Laboratory

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: ASTR 5 or ASTR 5H or ASTR 7 or ASTR 8 (May have been taken previously) Advisory: MATH 51

Practical experience in astronomy including use of telescopes and demonstrations in the college planetarium. Occasional evening observing sessions with the telescopes and other field trips are required. **Course Schedule**

ASTR 7 Geology of the Solar System

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Geological features and evolution in the solar system. Course surveys techniques used to study cratering, tectonic and volcanic activity, weathering, landsliding, erosion and faulting. Emphasis on solid surfaces other than Earth. Enroll in ASTR 5L to receive lab science credit. Field trips required. **Course Schedule**

ASTR 8 Introduction to Stars, Galaxies, and the Universe 3 Units (Degree Applicable, CSU, UC)

Lecture: 54

Survey of current astronomical models, structure and evolution of stars, galaxies, and the universe. Field trip(s) required. Enroll in ASTR 5L to receive lab science credit. **Course Schedule**

ASTR 99 Special Projects in Astronomy

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

In order to offer students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills through further instruction and practice.

Biology (BIOL)

BIOL 1 General Biology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: Eligibility for ENGL 68 Advisory: READ 90

Major principles and concepts, including cellular biology, energy relationships, biological systems, heredity, evolution and ecology for nonscience majors. Course Schedule

BIOL 2 Plant and Animal Biology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: BIOL 1 or BIOL 4; and MATH 71

Organismal biology including concepts in systematics, evolution, plant and animal physiology, ecology, and biotic relationships. Field trips are required.

Course Schedule

BIOL 3 Ecology and Field Biology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Advisory: Eligibility for ENGL 1A

Identification and ecological relationships of common local plants and animals. Emphasizes evolutionary relationships; ecology including animal behavior, communities, ecosystems, wilderness and wildlife preservation, and population dynamics. Techniques of collecting and preserving. Many laboratory meetings conducted off campus; most trips require walking and/or hiking. Hiking, weekend and other field trips required.

Course Schedule

BIOL 4 Biology for Majors

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 71 Prerequisite: (CHEM 10 or CHEM 40) and MATH 71 Advisory: Eligibility for ENGL 1A

Principles of biology required for advanced study, including cellular and molecular biology, bioenergetics, genetics, reproduction, evolution, biodiversity, and ecology. General Biology for science majors. One hour discussion group per week. Field trips with extensive hiking required. Course Schedule

BIOL 4H Biology for Majors - Honors

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 71 Prerequisite: Acceptance into the Honors Program; (CHEM 40 or CHEM 10) and MATH 71

Principles of biology required for advanced study including concepts of cellular and molecular biology, bioenergetics, genetics, reproduction, evolution, biodiversity and ecology. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 4 and BIOL 4H. Field trips with extensive hiking required. Course Schedule

BIOL 5 Contemporary Health Issues

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Contemporary health issues known to affect the quality and longevity of life. Topics include sexuality and reproduction, stress management, fitness and nutrition, substance use and abuse, and environmental quality. Emphasis on prevention of illness and injuries. Course Schedule

BIOL 6 Humans and the Environment

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Ecological concepts to aid understanding the Earth's environmental crisis and determining courses of action to correct the problem. Emphasis will be placed on specific problems of population, pollution, preservation of wildlife and wilderness, and open space. A historical appraisal of human attitudes toward the land and of the necessity of developing a new land ethic.

Course Schedule

BIOL 6L Humans and the Environment Laboratory

2 Units (Degree Applicable, CSU, UC) Lab: 108 Prerequisite: BIOL 6 (may be taken concurrently)

Investigates major principles and problems of humans and the environment in the field and in the biological science laboratory. Most laboratory meetings will be conducted at off-campus locations. Some trips will require significant amounts of walking. Course includes one weekend field trip. Course Schedule

BIOL 8 Cell and Molecular Biology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: BIOL 4 or BIOL 4H, and CHEM 50

Cell and molecular biology including eukaryotic cells, eukaryotic organelles, protein structure and functions; DNA and RNA structure and functions; protein synthesis; genome organization in viruses, prokaryotes and eukaryotes; gene cloning; protein and DNA technology and applications of genetic engineering. Course Schedule

BIOL 13 Human Reproduction, Development and Aging

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Human Development, from conception to death. Conception, growth, maturation and aging are studied as a natural continuum, influenced by our biophysical and psychosocial environment. Includes developmental theories and scientific methods used to study development. Field trips to several off-campus sites are required Course Schedule

BIOL 15 Human Sexuality

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Surveys biological, behavioral, cultural and ethical aspects of human sexuality. Contains mature and sexually explicit content. Course Schedule

BIOL 15H Human Sexuality - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Surveys biological, behavioral, cultural and ethical aspects of human sexuality. Contains mature and sexually explicit content. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 15 and BIOL 15H. Course Schedule

BIOL 17 Neurobiology and Behavior

3 Units (Degree Applicable, CSU, UC) Lecture: 54

An integrated analysis of the biological, ecological and evolutionary bases of animal behavior (ethology.) Historical and evolutionary contexts are emphasized through a detailed consideration of the psychobiological, ecological, ontological and sociobiological determinants of animal behavior. Field trip required. Course Schedule

BIOL 20 Marine Biology

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Marine environment including the principles of marine science, biology of marine invertebrates and vertebrates, structure and function of marine ecosystems, and human impact on the ocean. Field trip required. Course Schedule

BIOL 21 Marine Biology Laboratory

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: BIOL 20 (May have been taken previously)

Field and laboratory aspects of the marine environment. Emphasizes the structure and functional biology of marine invertebrates and vertebrates, ecology of intertidal organisms, and ecology of estuaries. Completion or concurrent enrollment in BIOL 20 is required. Field trips are required. Course Schedule

BIOL 25 Conservation Biology

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Concepts of conservation biology for natural resources, including biogeography, biodiversity and extinction, environmental law, public lands, and conservation organizations. Emphasis on strategies important to addressing biological conservation and sustainable management of natural and managed ecosystems. A field trip is required. Course Schedule

BIOL 34 Fundamentals of Genetics

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: BIOL 4 or BIOL 4H

Theory and applications of genetics. Major topics include Mendelian and molecular genetics, mechanisms of inheritance, gene expression, linkage and chromosome mapping, mutations and evolution, population genetics, and ethical and moral implications of biotechnology. Course Schedule

BIOL 34L Fundamentals of Genetics Lab

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: BIOL 34 (May have been taken previously).

Experiments and problem solving in genetics including Mendelian Genetics, linkage and recombination, cell division, mutation, molecular genetics including use of polymerase chain reaction (PCR) and electrophoresis, population genetics, and bioinformatics. Course Schedule

BIOL 50 Biology Basic Skills

0.5 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 9

Basic skills needed for students to succeed in biological science classes. Topics include a contrast of the academic demands of science to nonscience disciplines, preparation for biological laboratory experiences as well as lectures, development of personal study plan to manage the large volume of information, introduction to common Latin and Greek words to build vocabulary, use of memorization techniques, application of test-taking strategies for exams, especially lab practica, and analysis of test results. These techniques and strategies will be discussed using biological concepts and vocabularies as examples. It is recommended that this class be taken concurrently with another biological science class.

Course Schedule

BIOL 99A Special Projects in Biology

1-2 Units (Degree Applicable, CSU) Lecture: 18-36

In order to offer students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have instructor's authorization before enrolling in this course.

Botany (BTNY)

BTNY 3 Plant Structures, Functions, and Diversity

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Advisory: (BIOL 1 or BIOL 4) and Eligibility for ENGL 1A

Structures, functions, and diversity of plants, fungi, and algae. Includes comparative morphology and phylogenetic relationships of organisms from bacteria to angiosperms with an emphasis on ethnobotany, evolution, classification, ecology, and conservation. Several laboratory meetings are mandatory field trips, conducted off-campus, and students provide their own transportation. Course Schedule

Business: Accounting (BUSA)

BUSA 7 Principles of Accounting - Financial

5 Units (Degree Applicable, CSU, UC, C-ID #: ACCT 110) Lecture: 90 Prerequisite: BUSA 11 or eligibility for MATH 51 Advisory: Eligibility for ENGL 1A

Financial accounting required of Business Administration and Accounting majors. Defines financial accounting and its relevance to business decision makers, accounting concepts and techniques, analysis and recording of financial transactions, and preparation, analysis and interpretation of financial statements focusing on application of generally accepted accounting practices. Includes asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, ethics, and financial statement analysis. General Ledger Accounting Software program is integrated throughout and used to complete various homework assignments.

Course Schedule

BUSA 8 Principles of Accounting - Managerial

5 Units (Degree Applicable, CSU, UC, C-ID #: ACCT 120) Lecture: 90 Prerequisite: BUSA 7

Managerial accounting concepts and principles. Includes the role of managerial accounting, cost management concepts, cost behavior and relevant costs, job order and process costing, cost-volume-profit analysis, absorption and variable costing, profit planning and budgeting, standard costing and flexible budgeting, responsibility accounting and segment reporting, capital budgeting decisions, activity based costing, and cost management for just-in-time environments. Excel spreadsheet software is used to solve accounting problems and decision making in business. Course Schedule

BUSA 11 Fundamentals of Accounting

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSA 68 or eligibility for MATH 50

Accounting vocabulary and theory, equations to solve word problems, simple and compound interest, present value, consumer and business credit, mortgages, financial statements and ratios, inventory, depreciation, business taxes, investments. Course Schedule

BUSA 21 Cost Accounting

4.5 Units (Degree Applicable) Lecture: 72 Lab: 18 Prerequisite: BUSA 8

Practical and theoretical concepts of cost accounting. Includes variable and fixed costs, cost-volume-profit analysis, job order and process costing, activity-based costing, general and flexible budgeting, standard costs, product costing and pricing methods, cost allocation, inventory management, capital budgeting, and transfer pricing. Course Schedule

BUSA 52 Intermediate Accounting

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSA 8

Accounting concepts and principles and an in-depth analysis of the balance sheet and income statement. Emphasis is placed on the changing nature of principles and practices, the application of present-value concepts, the complexity of transactions that arise in a multifaceted economic environment and the use of accounting information in decision making Course Schedule

BUSA 58 Federal Income Tax Law

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSA 7 or BUSA 72

Federal income tax law as related to individuals, with comparison to partnerships, corporations, and state. Emphasis is placed on individual income taxes and related problems including research through the use of a federal tax reporting service. Course Schedule

BUSA 68 Business Mathematics

3 Units (Not Degree Applicable) Lecture: 54

Addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving. Course Schedule

BUSA 70 Payroll and Tax Accounting

3 Units (Degree Applicable) Lecture: 54 Prerequisite: Eligibility for BUSA 11

On-the-job payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for Social Security, federal, and state income taxes and their reconciliation. Laws related to Worker's Compensation, State Disability Benefit Laws and Fair Employment Practices are discussed. Course Schedule

BUSA 71 Personal Financial Planning

3 Units (Degree Applicable, CSU) Lecture: 54

Integrative approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. Students will examine their relationships with money, set personal goals, and develop a plan to meet those goals. Topics include consumerism, debt, healthcare, investing, retirement, long-term care, disability, death, and taxes. Students may not earn credit for both BUSA 71 and FCS 80. Course Schedule

BUSA 72 Bookkeeping - Accounting

5 Units (Degree Applicable) Lecture: 90 Prerequisite: BUSA 68 or eligibility for MATH 50

Bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of an accounting project for a company. Course Schedule

BUSA 75 Using Microcomputers in Financial Accounting

1 Unit (Degree Applicable) Lecture: 18 Prerequisite: BUSA 7 or BUSA 72

Accounting concepts utilizing QuickBooks, a general-ledger software program. Hands-on use of a microcomputer to process accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.

Course Schedule

BUSA 76 Using Microcomputers in Managerial Accounting

1 Unit (Degree Applicable) Lecture: 18 Prerequisite: BUSA 7 or BUSA 72

Analysis of financial data and preparation of managerial accounting reports using Excel software. Development of what-if formulas to be used as an aid in decision-making. Includes manufacturing and consolidation worksheets, financial statement analysis, and statement of cash flows. Course Schedule

BUSA 81 Work Experience in Accounting

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: BUSA 7 or BUSA 72

Provides accounting students with actual on-the- job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

Business : Business Communication (BUSO)

BUSO 5 Business English 3 Units (Degree Applicable) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Skills and techniques of English, as applied to business situations, with emphasis on effective document structure. Course Schedule

BUSO 25 Business Communications

3 Units (Degree Applicable, CSU, C-ID #: BUS 115) Lecture: 54 Prerequisite: ENGL 1A

Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims, and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports. Course Schedule

BUSO 26 Oral Communications for Business

3 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Oral communication used in business situations such as training sessions, presentations, professional discussions, and telephone interactions. Course Schedule

Business: Economics (BUSC)

BUSC 1A Principles of Economics - Macroeconomics 3 Units (Degree Applicable, CSU, UC, C-ID #: ECON 202) Lecture: 54 Prerequisite: Eligibility for ENGL 1A, and successful completion of MATH 71, or MATH 71B, or MATH 71X

Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. Course Schedule

BUSC 1AH Principles of Economics - Macroeconomics - Honors 3 Units (Degree Applicable, CSU, UC, C-ID #: ECON 202)

Lecture: 54

Prerequisite: Acceptance into the Honors Program and MATH 71, or MATH 71B, or MATH 71X

Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. An honors course designed to provide and enriched experience students may not receive credit for both BUSC 1A and BUSC 1AH. Course Schedule

BUSC 1B Principles of Economics - Microeconomics

3 Units (Degree Applicable, CSU, UC, C-ID #: ECON 201) Lecture: 54 Prerequisite: BUSC 1A or BUSC 1AH

Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity of supply and demand, consumer's behavior, cost theory and output determination under various market structures, factor markets, public choice, income distribution, externalities and government regulation, and comparative economic systems. Course Schedule

BUSC 1BH Principles of Economics - Microeconomics - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: ECON 201) Lecture: 54 Prerequisite: BUSC 1A or BUSC 1AH

Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity of supply and demand, consumer's behavior, cost theory and output determination under various market structures, factor markets, public choice, income distribution, externalities and government regulation, and comparative economic systems. This is an honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1B and BUSC 1BH.

Course Schedule

BUSC 17 Applied Business Statistics

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MATH 71

Statistical reasoning and application of primary statistical techniques used in solving managerial problems. Topics include collection and interpretation of data, measures of central tendency and dispersion, probability distributions, sampling and estimation, hypothesis testing, analysis of variance, linear regression and correlation and index numbers. Course Schedule

Business: Law (BUSL)

BUSL 18 Business Law

3 Units (Degree Applicable, CSU, UC, C-ID #: BUS 125) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Principles of business law emphasizing legal setting of business, nature of the law and court procedures, principles of contract law, sales of goods under the Uniform Commercial Code, torts, ethics, the U.S. Constitution, and criminal law. Course Schedule

BUSL 18H Business Law - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: BUS 125) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Principles of business law emphasizing legal setting of business, nature of the law and court procedures, principles of contract law, sales of goods under the Uniform Commercial Code, torts, ethics, the U.S. Constitution, and criminal law. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSL 18 and BUSL 18H.

Course Schedule

BUSL 19 Advanced Business Law

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: BUSL 18

Principles of business law emphasizing commercial paper, agency, partnerships, corporations, bankruptcy, regulation of trade and real property. Course Schedule

BUSL 20 International Business Law

3 Units (Degree Applicable) Lecture: 54 Advisory: Eligibility for ENGL 68

A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers. Course Schedule

BUSL 100 Everyday Law

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Practical aspects of current U.S. law, including the court system and civil procedures, the U.S. Constitution, legal ethics, tort law, criminal law and procedures, contracts, real estate law, family law, and careers in law. Required for 2+2+3 articulation. Course Schedule

Business: Management (BUSM)

BUSM 10 Principles of Continuous Quality Improvement

3 Units (Degree Applicable) Lecture: 54 Advisory: BUSO 5 or eligibility for ENGL 68

History and evolution of thought in Continuous Quality Improvement (CQI), including the theories and methods of Deming, Juran and Crosby. Practical application of Quality management processes and tools are presented for the continuous improvement of (organizational quality. Relevant case studies are included. Course Schedule

BUSM 20 Principles of Business

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Business and its functions, background, development, organization, and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices are covered. Course Schedule

BUSM 50 World Culture: A Business Perspective

3 Units (Degree Applicable, CSU) Lecture: 54

An overview of the effects of culture on business communication and interaction. Cultural roles and components are described and related to the business environment and the student's own culture. Course Schedule

BUSM 51 Principles of International Business

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68 or BUSO 5

International business environment with a global perspective. Introduces global viewpoints across the full spectrum of business functions, including, but not limited to: accounting, finance, human resources, management, operations, production, purchasing, and strategic planning. Course Schedule

BUSM 52 Principles of Exporting and Importing

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68 or BUSO 5

Practical information needed to participate in activities related to the exporting and importing of goods and services. Includes vocabulary, acronyms and information needed for an understanding of and participating in the exporting and importing of goods and services. Course Schedule

BUSM 60 Human Relations in Business

3 Units (Degree Applicable, CSU) Lecture: 54

Inter-disciplinary study of how people work and relate at the individual, group and organizational level. Topics include motivation, team work, leadership skill and how to handle organizational change. Course Schedule

BUSM 61 Business Organization and Management

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: BUSM 20

Functions of management, management concepts, planning, organizing, staffing and controlling. Theories of management, lines of authority, functions of departments, and the importance of policies, procedures, and controls. Course Schedule

BUSM 62 Human Resource Management

3 Units (Degree Applicable) Lecture: 54

Direction of people including guidance, control supervisory problems, training, job analysis interviewing, testing, rating, and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the business organization. Course Schedule

BUSM 66 Small Business Management

3 Units (Degree Applicable, CSU) Lecture: 54

Organizing, starting, and operating a small business enterprise. Emphasis on entrepreneurial applications in a small business environment. Course Schedule

BUSM 81 Work Experience in Business

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Corequisite: BUSM 20 (may have been taken previously)

Provides business students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

BUSM 85 Special Issues in Business

2 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement solutions in an actual business situation to add to the creation of a career portfolio. Course Schedule

Business: Real Estate (BUSR)

BUSR 50 Real Estate Principles

3 Units (Degree Applicable, CSU) Lecture: 54

Real estate law, public control, property valuation, finance and real estate practice. Meets some of the California Real Estate Salesperson and Broker License requirements and meets 30 hours toward Basic Appraisal Procedures 2008 Appraiser Qualifications Board (AWB) requirements for certified-residential/certified-general appraiser license. Also provides 30 hours toward Office of Real Estate Appraisers (OREA) requirements for state licensing. Course Schedule

BUSR 51 Legal Aspects of Real Estate

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSR 50

Real estate contracts, leases, deeds, foreclosures, homesteads, agency, and disclosures. Can be used to meet the additional educational requirements for the salesperson or broker license. Course Schedule

BUSR 52 Real Estate Practice

3 Units (Degree Applicable) Lecture: 54 Corequisite: BUSR 50 (May have been taken previously)

Office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. Must be completed prior to applying to take the Salesperson License Exam. Course Schedule

BUSR 52D Real Estate Practice Work Experience

3 Units (Degree Applicable)

Lab: 225

Corequisite: BUSR 50 and not possessing a permanent California real estate license at time of enrollment. Student must be enrolled in seven units minimum including work experience units.

Provides a minimum of 180 hours of on-site real estate office and/or field work experience under the supervision of a licensed California real estate professional and a college instructor/coordinator. Designed to satisfy Department of Real Estate licensing requirements serving as an equivalent to BUSR 52. Students who repeat this course will improve their skills through further instruction and practice. Course Schedule

BUSR 53 Real Estate Finance

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSR 50

Real estate financing sources, loans underwriting, applications, and appraisals. Can be used to meet the additional education requirement of the salesperson or broker license. Course Schedule

BUSR 55 Real Estate Economics

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSR 50

Analysis of international, national and local factors which determine the value of real estate. Course Schedule

BUSR 57 Income Tax Aspects of Real Estate Investments

3 Units (Degree Applicable) Lecture: 54

Income tax principles governing the acquisition, ownership, operation and disposition of real property investments with special emphasis on tax planning and integration of tax concepts with procedural aspects. May be used as an elective course to satisfy one of the California Department of Real Estate's requirements for the salesperson or broker license. Course Schedule

BUSR 59 Real Estate Property Management

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSR 50

Property management for owners and managers of residential and commercial income properties. Meets California real estate license requirements for salesperson and broker. Course Schedule

BUSR 60 Real Estate Investment Planning

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSR 50

Investment strategies, techniques, systems, and theories involving all forms of real estate with particular emphasis on research methods needed for successful investing. Course Schedule

BUSR 62 Mortgage Loan Brokering and Lending

3 Units (Degree Applicable) Lecture: 54 Prerequisite: BUSR 50

State and Federal laws that govern the practice of mortgage loan brokerage and lending in the State of California as well as mortgage lending history and process. May be used as an elective for the salesperson or broker license. Course Schedule

BUSR 76 Escrow Procedures I

3 Units (Degree Applicable) Lecture: 54

Escrow procedures including processing of case study sale escrows with and without new trust deed financing, including escrow vocabulary ,drawing of documents, and other processing details pertinent to handling escrows from inception to closing. May be used as an elective for the salesperson or broker license Course Schedule

BUSR 81 Appraisal: Principles and Procedures 3.5 Units (Degree Applicable) Lecture: 63

Advisory: BUSR 50 Principles and procedures of appraising real property with emphasis on residential properties. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses and by the Department of Real Estate (DRE) for real estate broker license. Provides 60 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Qualifications Board (AQB) Basic Appraisal Principles and Basic Appraisal Procedures modules. May be used as the elective course for the

salesperson license.

Course Schedule

Business: Sales, Merchandising & Marketing (BUSS)

BUSS 33 Advertising and Promotion 3 Units (Degree Applicable, CSU) Lecture: 54

Characteristics and role of advertising and promotion in business. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Course Schedule

BUSS 35 Professional Selling

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept. Course Schedule

BUSS 36 Principles of Marketing

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Organization and function of system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional and pricing strategies. Course Schedule

BUSS 50 Retail Store Management and Merchandising

3 Units (Degree Applicable, CSU) Lecture: 54

Principles and practices used in the management and merchandising of retail stores. Includes critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Course Schedule

BUSS 79 Work Experience in Marketing Management

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and

compliance with Work Experience regulations as designated in the College Catalog

Job experience in an approved work site relating to classroom-based learning for marketing students. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Course Schedule

BUSS 85 Special Issues in Marketing

2 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Provides marketing students with an opportunity to problem solve and develop a marketing plan or related project as requested by a local business to add to the creation of a career portfolio. Course Schedule

Chemistry (CHEM)

CHEM 9 Chemistry of Everyday Life 3 Units (Degree Applicable, CSU) Lecture: 54

Chemistry for non-majors. States of matter, measurements, periodic table, nomenclature, atomic and molecular structure, bonding, solubility, reactions, and acids and bases. Emphasis on chemistry applications in medicine, health, environment, and everyday lives. Course Schedule

CHEM 10 Chemistry for Allied Health Majors

5 Units (Degree Applicable, CSU, UC) Lecture: 72 Lab: 54 Prerequisite: Eligibility for MATH 71

Principles of inorganic chemistry including measurements, structure, nomenclature, reactions, radioactivity, energy, properties of matter, acids/ bases and solutions. For Allied Health majors such as nursing, dental hygiene, radiation technology. Completion does not give eligibility for CHEM 50.

Course Schedule

CHEM 20 Introductory Organic and Biochemistry

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Prerequisite: CHEM 10 or CHEM 40

Nomenclature, structure, function and reactions of major classes of organic compounds and of biomolecules, including amino acids, lipids, carbohydrates, nucleic acids and proteins. Structure and function of vitamins, coenzymes and enzymes. Metabolic pathways and biochemical energy.

CHEM 40 Introduction to General Chemistry

5 Units (Degree Applicable, CSU, UC, C-ID #: CHEM 101) Lecture: 72 Lab: 54 Prerequisite: Eligibility for MATH 71 Advisory: Eligibility for ENGL 1A

Measurements, structure and properties of matter, writing/balancing equations, stoichiometry, properties and behavior of gases, and properties of solutions. For science/ engineering majors preparing for admission into General Chemistry (CHEM 50.) Course Schedule

CHEM 50 General Chemistry I

5 Units (Degree Applicable, CSU, UC, C-ID #: CHEM 110) Lecture: 54 Lab: 108 Prerequisite: CHEM 40 or satisfactory score on Chemistry Placement Examination; and MATH 71 or MATH 71B or MATH 71X or equivalent.

General Chemistry topics including chemical formulas, equations, nomenclature, reactions, stoichiometry, thermochemistry, periodic trends, atomic structure, chemical bonding and structure, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking as well as mathematical and dimensional analysis problem-solving. Laboratory experiments emphasize the scientific method as well as computer-based technologies in data acquisition and analysis. Introduces laboratory report writing skills. Course Schedule

CHEM 50H General Chemistry I - Honors

5 Units (Degree Applicable, CSU, UC, C-ID #: CHEM 110) Lecture: 54 Lab: 108

Prerequisite: Acceptance into the Honors Program. CHEM 40 or satisfactory score on Chemistry Placement Examination, and MATH 71, 71B, or 71X or equivalent.

General Chemistry topics including chemical formulas, equations, nomenclature, reactions, stoichiometry, thermochemistry, periodic trends, atomic structure, chemical bonding and structure, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking as well as mathematical and dimensional analysis problem-solving. Laboratory experiments emphasize the scientific method as well as computer-based technologies in data acquisition and analysis. Introduces laboratory report writing skills. An honors course designed to provide an enriched experience. Students may not receive credit for both CHEM 50 and CHEM 50H.

Course Schedule

CHEM 51 General Chemistry II

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Prerequisite: CHEM 50 or CHEM 50H

Kinetics, equilibrium, thermodynamics, acid-base and oxidation-reduction reactions, transition metals, electrochemistry, and nuclear chemistry. Emphasis is on critical thinking and mathematical problem-solving. Laboratory experiments support lecture topics and use a variety of instrumentation and technology in data acquisition and analysis. Course Schedule

CHEM 51H General Chemistry II - Honors

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Prerequisite: Acceptance into the Honors Program and CHEM 50 or CHEM 50H

Kinetics, equilibrium, thermodynamics, acid-base and oxidation-reduction reactions, transition metals, electrochemistry, and nuclear chemistry. Emphasis is on critical thinking and mathematical problem-solving. Laboratory experiments support lecture topics and use a variety of instrumentation and technology in data acquisition and analysis. An honors course designed to provide an enriched experience. Students may not receive credit for both CHEM 51 and CHEM 51H. Course Schedule

CHEM 80 Organic Chemistry

5 Units (Degree Applicable, CSU, UC, C-ID #: CHEM 160S) Lecture: 54 Lab: 108 Prerequisite: CHEM 51

Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre-professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/ reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods for organic compounds. To assure that all content material is covered, it is recommended that students complete the entire one-year sequence at one campus prior to transfer. Course Schedule

CHEM 81 Organic Chemistry II

5 Units (Degree Applicable, CSU, UC, C-ID #: CHEM 160S) Lecture: 54 Lab: 108 Prereguisite: CHEM 80

Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre-professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/ reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods. Structure, synthesis and representative reactions of carbohydrates, lipids and proteins. Course Schedule

CHEM 99 Special Projects in Chemistry

2 Units (Degree Applicable, CSU) Lecture: 36 Prerequisite: CHEM 50

Offers selected students recognition for their academic interest and ability and the opportunity to explore their disciplines to greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this class.

Child Development (CHLD)

CHLD 1 Child, Family, School and Community

3 Units (Degree Applicable, CSU, UC, C-ID #: CDEV 110) Lecture: 54

Prerequisite: Eligibility for ENGL 68

Home, child, school and community relationships as they pertain to the historical and contemporary perspectives on the education and socialization of children. Family systems and community resources and the influences of age, gender, culture, diverse abilities, socioeconomic status and public policies factors that affect children and families. Course Schedule

CHLD 5 Principles and Practices in Child Development Programs 3 Units (Degree Applicable, CSU)

Lecture: 54

Examine programs, appropriate practices, regulations, and inclusive environments for diverse learners. Theoretical principles of developmentally appropriate practices applied to programs and environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development for children. Review of the historical roots of Early Childhood Education (ECE) programs and evolution of the professional practices promoting advocacy, ethics, and professional identity. Tuberculosis (TB) clearance required. 6 hours of child observation.

Course Schedule

CHLD 6 Introduction to Child Development Curriculum

3 Units (Degree Applicable, CSU, C-ID #: ECE 130) Lecture: 54 Advisory: CHLD 5 or CHLD 10 or CHLD 10H

Curriculum designs, content areas and environments related to early education programs appropriate for children ages birth-8 years old. Explores materials and resources used when planning and implementing developmentally appropriate curriculum for children ages birth to 8 years old. Examines the teacher's role in the on-going process of observation and assessment to support development, play, and learning. TB test and observations required. Course Schedule

CHLD 10 Child Growth and Lifespan Development

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Human lifespan and developmental influences. Developmental approach to the study of the person identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title V Regulations pertaining to Child Development Permit. Out-of-class observations and interviews required. TB test required. Course Schedule

CHLD 10H Child Growth and Lifespan Development- Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Human lifespan and developmental influences. Developmental approach to the study of the person identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title V Regulations pertaining to Child Development Permit. Out-of-class observations and interviews required. TB test required. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both CHLD 10 and CHLD 10H. Course Schedule

CHLD 11 Child and Adolescent Development

3 Units (Degree Applicable, CSU, UC, C-ID #: CDEV 100) Lecture: 54

Examines major physical, psychosocial, cognitive, language and brain developmental processes prenatal through adolescence. Emphasis on developmental theory, research methodologies, maturational processes and environmental factors. Meets Title 22 and Title V requirements for the Child Development Permit. TB test, out-of-class observations and interviews required.

Course Schedule

CHLD 50 Teaching in a Diverse Society

3 Units (Degree Applicable, CSU, C-ID #: ECE 230) Lecture: 54 Advisory: CHLD 1

Development of social identities in diverse societies of young children in classroom settings. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches teaching all children in becoming competent members of a diverse society. Course utilizes theories and teaching strategies that include self-examination, reflection and opportunity to address issues related to social identity, stereotypes and bias, oppression, social and educational access, media and schooling. Out-of-class observations required. TB test required.

Course Schedule

CHLD 51 Early Literacy in Child Development

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: CHLD 61

Examines the developmental continuum of literacy from birth through early childhood. Considerations of cultural and linguistic diversity are applied to the study of how children become competent in all areas of language. An appreciation of the importance of interaction and cooperation between home and school underlies the exploration of language and literacy acquisition. Issues of early literacy in public policy are reviewed. TB test/observations required. Course Schedule

CHLD 61 Language Arts and Art Media for Young Children 3 Units (Degree Applicable)

Lecture: 54

Exploration of activities and techniques to develop artistic creativity and literacy skills in young children. Participation in art and literacy experiences to evaluate materials and approaches used in the early education setting. Discussion of the creative process and other relevant literacy activities within diverse cultures that support learning. Development of a culturally and linguistically appropriate learning environment which encourages children's use of senses and builds children's awareness of aesthetic materials through art and language arts activities.

Course Schedule

CHLD 62 Music and Motor Development for Young Children

3 Units (Degree Applicable, CSU) Lecture: 54

Exploration of the role of music and movement in a young child's sensory motor development. Emphasizes student development in practical activities including making music, movement, singing and musical instruments. Out of class observation at a child development center required. TB test required. Course Schedule

CHLD 63 Creative Sciencing and Math for Young Children

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68

Exploration of children's thinking processes and problem-solving abilities as they become aware of the physical world. Includes planning and creating science and math experiences that emphasize the creative aspects of math and science. Course Schedule

CHLD 64 Health, Safety and Nutrition of Children

3 Units (Degree Applicable, CSU, C-ID #: ECE 220) Lecture: 54

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. Course Schedule

CHLD 66 Early Childhood Development Observation and Assessment

2 Units (Degree Applicable, CSU, C-ID #: ECE 200, (66+66L)) Lecture: 36 Prerequisite: CHLD 5 and CHLD 11 Corequisite: CHLD 66L Advisory: Eligibility for ENGL 68

The appropriate use of observation and assessment strategies to document children's behavior, development, and growth. Recording strategies, documentation panels, rating systems, and multiple assessment tools are explored. Note: Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at http://mtsac.edu/cdc/immunization Course Schedule

CHLD 66L Early Childhood Development Observation and Assessment Laboratory

1 Unit (Degree Applicable, CSU, C-ID #: ECE 200, (66+66L)) Lab: 54 Prerequisite: CHLD 5 and CHLD 11 Corequisite: CHLD 66 Advisory: Eligibility for ENGL 68

Child development through observation and assessment in the Early Childhood Education Laboratory School. A holistic approach to child study is emphasized. Students synthesize information which they have recorded and relate it to various domains of the preschool child's growth and development. CHLD 66 must be taken concurrently. Students must provide documentation of influenza, pertussis (TDap), and measles immunization as well as tuberculosis (TB) clearance as required by SB792 prior to being permitted to enroll in this class. Instructions on submitting documentation are available at http://mtsac.edu/cdc/ immunization or at the Child Development Department office. Course Schedule

CHLD 67 Early Childhood Education Practicum

2 Units (Degree Applicable, CSU, C-ID #: ECE 200, (67+67L)) Lecture: 36 Prerequisite: CHLD 1 and CHLD 6 and CHLD 66 and CHLD 66L Corequisite: CHLD 67L Advisory: CHLD 61 or CHLD 62 or CHLD 63

Child development principles in the preschool classroom setting and recognition of skills necessary for the teacher of young children. Evaluation of participation experiences. Note: Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class.

CHLD 67L Early Childhood Education Practicum Laboratory

1 Unit (Degree Applicable, CSU, C-ID #: ECE 200, (67+67L)) Lab: 63

Corequisite: CHLD 67

Supervised teaching experience with young children. Child centered, playoriented approaches to teaching, learning, and assessment. Student teachers design, implement, and evaluate curriculum for groups of children. Note: Students must provide documentation of influenza, pertussis (TDap), and measles immunization, as well as TB clearance, as required by SB792 prior to being permitted to enroll in this class. Course Schedule

CHLD 68 Children With Special Needs

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68 and (CHLD 10 or CHLD 10H or CHLD 11)

Typical and atypical characteristics in physical, cognitive, and socialemotional development for those planning to work with children with special needs. Topics relevant to the inclusive classroom are examined from a culturally sensitive, family-centered perspective. Examines current and historical legal issues, current educational trends, and community resources. TB test required for off-campus observations. Course Schedule

CHLD 69 Early Childhood Development Field Work Seminar

2 Units (Degree Applicable, CSU) Lecture: 36 Prerequisite: (CHLD 67 and CHLD 67L) or (CHLD 86 and CHLD 87) Corequisite: CHLD 91

Selected problem-solving topics related to student teaching at community sites. Topics include philosophical orientation, curriculum, parent involvement, staff relations, professionalism, and professional growth.

Course Schedule

CHLD 71A Administration of Child Development Programs

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: CHLD 1 and CHLD 5 and CHLD 6 and CHLD 10 or CHLD 10H

Administration of children's programs including laws governing children's programs in California, site development and supervision, administrator's duties, program budget and management, personnel selection and standards, records and reports, health and safety supervision and staff policies.

Course Schedule

CHLD 71B Management/Marketing/Personnel for ECD Programs 3 Units (Degree Applicable, CSU)

Lecture: 54 Prerequisite: CHLD 71A

Strategic planning for childhood programs, including financial administration, marketing strategies and staff development. Personnel management practices designed to facilitate administrator and staff relationships, skill building in leadership, and team work. Course Schedule

CHLD 72 Teacher, Parent, and Child Relationships 3 Units (Degree Applicable)

Lecture: 54

Child-parent-teacher relationships to better understand family dynamics and to recognize influences in the child development setting. Theories of sequential changes in parent-child-school relations within the large social context. Strategies dealing with issues that emerge when working with children and their families in the school setting. Course Schedule

CHLD 73 Infant and Toddler Development

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: CHLD 11 and Eligibility for ENGL 68

Infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. Documentation of tuberculosis (TB) clearance is required. Course Schedule

CHLD 74 Program Planning for the School Age Child

3 Units (Degree Applicable) Lecture: 54 Advisory: CHLD 10 or CHLD 10H or CHLD 11

Principles of child development related to working with school-age children. Program planning and legal requirements for school-age programs emphasized. Explores discipline and conflict resolution. Methods of integrating after-school activities with California content standards. TB test required for observations. Course Schedule

CHLD 75 Supervising Adults in Early Childhood Settings

2 Units (Degree Applicable, CSU) Lecture: 36 Advisory: CHLD 1 and CHLD 5

Methods and principles of working with and supervising adults in the early childhood setting. Emphasis is on the role of the experienced children's teacher who functions as a model and mentor to new teachers as s/he addresses the needs of children, parents and staff. Course Schedule

CHLD 79 Infant and Toddler Care and Education

3 Units (Not Degree Applicable, CSU) Lecture: 54 Prerequisite: CHLD 73 Advisory: CHLD 11 and Eligibility for ENGL 68

Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles, and practices that lead to quality care and developmentally appropriate curriculum for children from birth to 36 months. Documentation of influenza, pertussis, and measles immunization and tuberculosis (TB) clearance as required by Senate Bill (SB) No. 792. Course Schedule

CHLD 83 Current Issues in Child Development

1 Unit (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Advisory: CHLD 5 and CHLD 11

Current research in child development that is applied to programs and teaching. Issues covered will change with course offerings. Course Schedule

CHLD 84 Guidance and Discipline in Child Development Settings

1 Unit (Degree Applicable, CSU) Lecture: 18 Advisory: CHLD 5

Problem solving approach to guidance and discipline of children in child development settings. Investigation of appropriate developmental and attitudinal aspects of producing a respectful environment between children, caregivers and parents. Course Schedule

CHLD 85 Infants At Risk

3 Units (Degree Applicable) Lecture: 54 Prerequisite: CHLD 10 or CHLD 10H or CHLD 11 Advisory: CHLD 73

Principles and methods of working with infants who are disabled or at-risk. Emphasis on prenatal prevention, postnatal intervention, and support programs. Course will prepare caregivers of infants at risk for appropriate program planning. TB test and out-of-class observations required.

Course Schedule

CHLD 86 Infant Toddler Practicum Seminar

2 Units (Not Degree Applicable, CSU) Lecture: 36 Prerequisite: CHLD 66 and CHLD 66L and CHLD 73 and CHLD 79 Corequisite: CHLD 87

Developmentally appropriate early childhood teaching competencies under guided supervision in an infant/toddler classroom. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child-centered, play-oriented approaches to teaching, learning, and assessment. Course Schedule

CHLD 87 Infant Toddler Practicum Field Work Experience

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 60 Prerequisite: CHLD 66 and CHLD 66L and CHLD 73 and CHLD 79 Corequisite: CHLD 86

Supervised teaching experience with infants and toddlers. 75 paid or 60 non-paid hours required per unit of credit. Knowledge of care routines and relationship-based content areas will be emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for young children while supporting an inclusive and culturally diverse environment. Documentation of influenza, pertussis, and measles immunization and TB clearance as required by SB792.

Course Schedule

CHLD 91 Early Childhood Development Field Work

1 Unit (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 75 Prerequisite: (CHLD 67 and CHLD 67L) or (CHLD 86 and CHLD 87) Corequisite: CHLD 69

Course Schedule

Chinese (CHIN)

CHIN 1 Elementary Chinese 4 Units (Degree Applicable, CSU, UC) Lecture: 72

Intended for students without previous exposure to Chinese. Begins to develop the ability to converse, read, and write in Mandarin Chinese. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Chinese culture. Course Schedule

CHIN 2 Continuing Elementary Chinese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: CHIN 1 or equivalent

Further develops conversational, reading, and writing skills in Mandarin Chinese with special emphasis on verbs, grammar, and extension of vocabulary. Course Schedule

CHIN 3 Intermediate Chinese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: CHIN 2

Further development of Mandarin Chinese language skills and their use as tools in exploring Chinese civilization. Further study and review of grammar, exercises in word building, derivation, and the extension of the active and recognition vocabularies. Course Schedule

CHIN 4 Continuing Intermediate Chinese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: CHIN 3

Using Mandarin in traveling, telling stories, describing experiences and discussing Chinese literary works, festivals, food and advanced grammar. Course Schedule

Computer and Networking Technology (CNET)

CNET 50 PC Servicing

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: ELEC 50A and ELEC 50B taken prior or concurrently

Personal computer (PC) and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment. Course Schedule

CNET 52 PC Operating Systems

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: CNET 50 taken prior

Current operating systems required for A+ and Network+ Certification and general computer servicing. Includes: identification of major components, installation, configuration, upgrading and troubleshooting. Course Schedule

CNET 54 PC Troubleshooting

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: CNET 50 taken prior

Personal computer (PC) servicing. Includes isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam. Course Schedule

CNET 56 Computer Networks

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: CNET 54 taken prior

Standards, terminology, design, implementation and troubleshooting techniques as they relate to both local and wide area networks. Emphasis on hardware and software components, network architecture and data transmission methods. Of special interest to computer and network technicians and those seeking certification in A+, Network+, or other certifications.

Course Schedule

CNET 58 Server Systems

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: CNET 56

Server systems, both physical and virtual. Server installation, configuration, and management. Includes hardware and software components, virtual server configurations, troubleshooting techniques using flow charts and diagnostic tools, and disaster recovery concepts. Emphasis on hardware components. Covers the core material needed for the Server+ Certification. Software content in this course is covered only to the extent that is required for hardware troubleshooting, repair and implementation per CompTIA. Course Schedule

CNET 60 A+ Certification Preparation

2 Units (Degree Applicable) Lecture: 36 Advisory: CNET 50 and CNET 52

Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the A+ Essentials and A+ Practical Application test modules will be stressed through both lecture review and test simulation software. Course Schedule

CNET 62 Network+ Certification Preparation

2 Units (Degree Applicable) Lecture: 36 Advisory: CNET 56

Prepares the student or A+ certified technician for the Network+ (Net+) certification examination. Includes Open System Interconnection (OSI) model, Transmission Control Protocol/Internet Protocol (TCP/IP), and implementing, installing, maintaining, and supporting networks. Course Schedule

CNET 64 Server+ Certification Preparation

2 Units (Degree Applicable) Lecture: 36 Advisory: CNET 58

Prepares the computer/network service technician for the CompTIA Server+ certification examination. Course Schedule

CNET 66 Security+ Certification Preparation

2 Units (Degree Applicable) Lecture: 36 Advisory: CNET 54 and CNET 56

Prepares the computer/network service technician for the CompTIA sponsored Security+ Certification examination. Security information is covered only as it pertains to enabling the service technician to troubleshoot a computer system that may have a security problem. Course Schedule

Computer Information Systems: Beginning (CISB)

CISB 10 Office Skills 3 Units (Degree Applicable) Lecture: 54

Skills necessary to work in an office setting including: alpha and numeric keyboarding, email etiquette and standards, electronic calendaring, tenkey, composing, formatting and storing business documents, telephone techniques.

Course Schedule

CISB 11 Computer Information Systems

3.5 Units (Degree Applicable, CSU, UC, C-ID #: BUS 140, ITIS 120) Lecture: 54 Lab: 27

Overview of computer information systems including computer hardware, software, networking, programming, databases, Internet, security, systems analysis, ethics, and problem solving using business applications. Course Schedule

CISB 15 Microcomputer Applications

3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27

Windows operating system and applications; simple business examples using up-to-date browser; word processing, spreadsheet, database management and presentation software; and integration of software applications.

Course Schedule

CISB 16 Macintosh Applications

2 Units (Degree Applicable, CSU) Lecture: 27 Lab: 27

Macintosh operating system and related tools; creating files using office applications; storing and sharing files using iCloud. Course Schedule

CISB 21 Microsoft Excel

3 Units (Degree Applicable, CSU) Lecture: 54

Spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, pivot tables, macros, and Visual Basic for Applications (VBA) code. Course Schedule

CISB 31 Microsoft Word

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Advisory: Ability to type 25 words a minute or CISI 11

Word processing with Microsoft Word and its editing, formatting, and language tools to create, edit and format business and publication documents. Includes creating flyers, newsletters, and other publication documents using advanced formatting techniques and tools. Course Schedule

CISB 51 Microsoft PowerPoint

3 Units (Degree Applicable, CSU) Lecture: 54

Using PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation, and movies. Course Schedule

Computer Information Systems: Database (CISD)

CISD 11 Database Management - Microsoft Access 3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISD 11L Advisory: CISB 15 or CISB 11

Design, creation, and management of relational databases using Microsoft Access. Basic database design, creation of tables, queries, forms, reports, and macros. Creation of custom graphical user interface and introduction to Visual Basic for Applications (VBA) code. Course Schedule

CISD 11L Database Management - Microsoft Access Laboratory 0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISD 11

Laboratory for CISD 11 - Database Management - Microsoft Access. Exercises focusing on design and development of a business database using Microsoft Access software, including creation of tables and relationships between tables, queries, forms, reports, macros, and an introduction to Visual Basics for Applications (VBA) programming language to make a fully-functioning, user-friendly Access database. Course Schedule

CISD 14 VBA for Excel and Access

3 Units (Degree Applicable) Lecture: 54 Corequisite: CISD 14L Advisory: CISD 11 and CISB 21

Excel and Access programming using Visual Basic for Applications (VBA) programming language for business applications. Event-driven programming, Excel and Access Object Models, ActiveX Data Objects model (ADO), VBA structures, arrays, embedded SQL (Structured Query Language) into Access VBA, and error-handling. Course Schedule

CISD 14L Visual Basic for Applications (VBA) Excel and Access Lab

0.5 Units (Degree Applicable) Lab: 27 Corequisite: CISD 14

Laboratory component for the CISD 14 course. Visual Basic for Applications (VBA) programming language exercises in both Excel and Access applications. Uses the structures learned in the CISD 14 course, including decision statements, looping, array manipulation, and errorhandling. Use the Excel and Access Object Models and the ActiveX Data Objects model in programming projects. Course Schedule

CISD 21 Database Management - Microsoft SQL Server

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISD 21L Advisory: CISB 11 or CISB 15

Structured Query Language (SQL) and Transact-SQL for Microsoft SQL Server. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures and functions, developing triggers, and creating cursors.Student must be enrolled in CISD 21L, a concurrent lab co-requisite. Course Schedule

CISD 21L Database Management - Microsoft SQL Server Laboratory 0.5 Units (Degree Applicable, CSU)

Lab: 27 Corequisite: CISD 21

Laboratory for CISD 21 - Structured Query Language (SQL) and Transact-SQL for Microsoft SQL Server. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures, functions, triggers, and creating cursors. Student must be enrolled in CISD 21, a concurrent lecture co-requisite. Course Schedule

CISD 31 Database Management - Oracle

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISD 31L Advisory: CISB 11 or CISB 15

Oracle database management system (DBMS) functions, concepts, and terms. Procedure Language/Structure Query Language (PL/SQL) is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL. Concurrent enrollment in CISD 31L is required. Course Schedule

CISD 31L Database Management - Oracle Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISD 31

Laboratory for CISD 31 - Oracle database management system (DBMS) functions, concepts, and terms. Procedure Language/Structured Query Language (PL/SQL) is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL. Concurrent enrollment in CISD 31 is required. Course Schedule

CISD 40 Database Design

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: CISD 11 and CISD 11L

Database design principles. Understanding database needs and functions, creating data models, entity-relationship (E-R) and Unified Modeling Language (UML) diagrams, using normalization rules and principles to create databases, learning basic database administrator objectives and tasks, and understanding the role of data warehousing and data mining.

Course Schedule

Computer Information Systems: Management (CISM)

CISM 11 Systems Analysis and Design 3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27 Advisory: CISB 11

Information systems and the discipline of systems analysis in relation to the system development life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development. Application of structured analysis and design methods and tools, including Computer Aided System Engineering (CASE) tools. Course Schedule

Computer Information Systems: Networking (CISN)

CISN 11 Telecommunications Networking

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISN 11L Advisory: CISB 11

Prepares students for the first year Cisco Certified Network Associate (CCNA) and Network+ certification. Telecommunications networking focusing on network concepts and designs; network standards; Transmission Control Protocol and Internet Protocol (TCP/IP) version 4 (IPv4) and version 6 (IPv6); Open Systems Interconnection (OSI); network protocols; transmission media; switch; hardware architecture; local area network (LAN); wide area network (WAN); remote connectivity; Microsoft and Linux network operating system; network troubleshooting, maintenance, and upgrade; network and wireless security; system vulnerability; and network sniffing analysis. Course Schedule

CISN 11L Telecommunications/Networking Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISN 11

Telecommunications Networking lab preparing students for first year Cisco Certified Network Associate (CCNA) and Network+ certification. Telecommunications Networking focusing on network concepts and designs, network standards, Transmission Control Protocol and Internet Protocol (TCP/IP) version 4 (IPv4) and version 6 (IPv6), Open Systems Interconnection (OSI), network protocols, transmission media, switch, hardware architecture, local area network (LAN), wide area network (WAN), remote connectivity, Microsoft and Linux network operating system, network troubleshooting, maintenance, and upgrade, network and wireless security, system vulnerability, and network sniffing analysis. Course Schedule

CISN 21 Windows Operating System

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: CISB 11 or CISB 15

Windows operating system installation and performance tweaking, including hardware and software issues, Windows system files, and Windows security. Course Schedule

CISN 24 Window Server Network and Security Administration

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISN 24L Advisory: CISN 11

Computer Network Administration and Security Management (CNASM) core. Microsoft Certified Solutions Expert (MCSE) topics, Active Directory security and Group Policy management, Hyper-V virtual server installation, Dynamic Host Configuration Protocol (DHCP), Domain Name Service (DNS), file system security, logon script, software deployment, network printing, Remote Desktop (RD) Gateway and RD Web Access, Network Address Translation (NAT), Internet Protocol Security (IPsec) and secure Virtual Private Network (VPN), Internet Protocol (IP) version 6 (v6) DHCPv6, DNSv6, and IPv6 Routing. Course Schedule

CISN 24L Window Server Network and Security Administration Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISN 24

Laboratory applications for Microsoft Server Certification Expert (MCSE) topics, Active Directory security and Group Policy management, Hyper-V virtual server installation, Dynamic Host Configuration Protocol (DHCP), Domain Name Service (DNS), file system security, logon script, software deployment, network printing, Remote Desktop (RD) Gateway and RD Web Access, Network Address Translation (NAT), IPsec and secure Virtual Private Network (VPN), Internet Protocol (IP) version 6 (v6) DHCPv6, DNSv6, and IPv6 Routing. Student must be enrolled in CISN 24 - Window Server Network and Security Administration, a concurrent lecture correquisite.

Course Schedule

CISN 31 Linux Operating System

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISN 31L Advisory: CISB 11

Concepts and skills in planning and installing Linux Operating System and its graphical user interface; using Linux Shells and system administration commands; managing user accounts; installing hardware and software; and maintaining file systems and system resources. Course Schedule

CISN 31L Linux Operating System Laboratory 0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISN 31

Laboratory for planning, installing, and managing Linux Operating System (OS) and its graphical user interface (GUI); using Linux Shells and system administration commands; managing user accounts; installing hardware and software; and maintaining file systems and system resources. Concurrent enrollment in CISN 31 lecture course is required. Course Schedule

CISN 34 Linux Networking and Security

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISN 34L Advisory: CISN 31

Installation and management of Linux operating system networks and security modules. Concept study and installation of Transmission Control Protocol/Internet Protocol (TCP/IP) protocols, Internet Protocol (IP) addressing, network protocols and servers, routers, and network applications. Creating Linux intranets and connecting to Internet.Student must take CISN 34L, a concurrent lab co-requisite. Course Schedule

CISN 34L Linux Networking and Security Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISN 34

Laboratory for installation and management of Linux operating system networks and security modules. Concept study and installation of Transmission Control Protocol/Internet Protocol (TCP/IP) protocols, Internet Protocol (IP) addressing, network protocols and servers, routers, and network applications. Creating Linux intranets and connecting to Internet. Student must be enrolled in CISN 34, a concurrent lecture course co-requisite.

Course Schedule

CISN 51 Cisco CCNA Networking and Routing

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISN 51L Advisory: CISN 11

Computer Network Administration and Security Management (CNASM) core. Preparation for Cisco Certified Network Associate (CCNA) certification. Design and configuration of local area networks (LAN), wide area networks (WAN), open systems interconnection (OSI) model, advanced Subnetting, route summarization, command line Interface (CLI), transmission control protocol and Internet protocol (TCP/IP), Cisco internetwork operating system (IOS), router, advanced switching, virtual LAN (VLAN) , access control lists (ACL), wireless and network security, Internet protocol version 6 (IPv6), point-to-point protocol (PPP), voice over Internet protocol (VoIP), and routing protocols including static route, routing information protocol (RIP), enhanced interior gateway routing protocol (EIGRP), and open shortest path first (OSPF). Student must be enrolled in CISN 51L, a concurrent lab co-requisite.

CISN 51L Cisco CCNA Networking and Routing Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISN 51

Lab to prepare for Cisco Certified Network Associate (CCNA) certification. Design and configuration of local area networks (LAN), wide area networks (WAN), open systems interconnection (OSI) model, advanced subnetting, route summarization, command line interface (CLI), transmission control protocol and Internet protocol (TCP/IP), Cisco internetwork operating system (IOS), router, advanced switching, virtual LAN (VLAN), access control lists (ACL), wireless and network security, Internet protocol version 6 (IPv6), point-to-point protocol (PPP), voice over Internet protocol (VoIP), and routing protocols including static route, routing information protocol (RIP), enhanced interior gateway routing protocol (EIGRP), and open shortest path first (OSPF). Student must be enrolled in CISN 51 - Cisco CCNA Networking and Routing, a concurrent lecture co-requisite. Course Schedule

CISN 61 Virtualization Technology

3 Units (Degree Applicable) Lecture: 54 Advisory: CISB 11 or CISN 21 or CISN 31

Plan, configure, secure, install, and maintain latest virtual systems from prominent vendors. Course Schedule

Computer Information Systems: Programming (CISP)

CISP 10 Principles of Object-Oriented Design 2.5 Units (Degree Applicable, CSU) Lecture: 27 Lab: 54 Advisory: Advisory corequisites CISP 11 or CISP 21 or CISP 31 or CISP 41

Object-oriented design, patterns, and use of Unified Modeling Language (UML) in different programming languages that will enable students to build large packages and business applications. The course also covers Agile and Scrum methodologies. Course Schedule

CISP 11 Programming in Visual Basic

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: CISP 11L Advisory: CISB 11 or CISB 15 or CISP 10

Visual Basic (VB) programming in the business environment includes: planning and writing object-oriented applications using Windows Forms and Web Forms; user interface design classes, objects, properties, methods and events; control structures; lists and arrays; printing and print previews; accessing a database. Course Schedule

CISP 11L Programming in Visual Basic Laboratory 0.5 Units (Degree Applicable, CSU, UC) Lab: 27 Corequisite: CISP 11

Laboratory for CISP 11 Programming in Visual Basic (VB). Planning and writing object-oriented applications in the business environment; using Windows Forms and Web Forms; user interface design classes, objects, properties, methods, and events; control structures; lists and arrays; printing and print previews; accessing a database. Course Schedule

CISP 14 Advanced Visual Basic .NET

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: CISP 14L Advisory: CISP 11 and CISP 11L

Advanced programming concepts using Visual Basic .NET: designing, coding, testing and implementing object-oriented multi-tier applications; displaying, searching, and updating SQL/Client databases with both Windows Forms and Web Forms; creating user controls, Web Services, and container classes; creating help files, deploying applications, and developing mobile applications. Student must be enrolled in CISP 14L, a concurrent lab co-requisite. Course Schedule

CISP 14L Advanced Visual Basic.NET Laboratory

0.5 Units (Degree Applicable, CSU, UC) Lab: 27 Corequisite: CISP 14 Advisory: CISP 11 and CISP 11L

Laboratory for advanced programming concepts using Visual Basic .NET: designing, coding, testing and implementing object-oriented multi-tier applications; displaying, searching, and updating SQL/Client databases with both Windows Forms and Web Forms; creating user controls, Web Services, and container classes; creating help files, deploying applications, and developing mobile applications. Student must be enrolled in CISP 14, a concurrent lecture co-requisite. Course Schedule

CISP 21 Programming in Java 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: CISP 21L Advisory: CISP 10 and (CISB 11 or CISB 15)

Design and development of object-oriented Java programming applications. Includes object-oriented business programs and applications, documentation and debugging techniques, user-interface, objects, various data types, methods, events, elementary control structures, arrays, and inheritance. Student must take CISP 21L concurrently.

CISP 21L Programming in Java Laboratory 0.5 Units (Degree Applicable, CSU, UC) Lab: 27

Corequisite: CISP 21

Laboratory for CISP 21 - Java Programming exercises focusing on design and development of object-oriented business programs and applications, documentation and debugging techniques, user-interface, objects, variables, methods, events, elementary control structures, lists, arrays, and inheritance. Concurrent enrollment in the lecture course CISP 21 -Programming in Java is required. Course Schedule

CISP 24 Advanced Java Programming

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: CISP 24L Advisory: CISP 21 and CISP 21L

Advanced object-oriented programming using Java: designing, coding, testing, and implementing multi-tier applications in serialization, multithreading, Advanced Swing Components (ASC), networking, serverside technology which include servlets, remote method invocation (RMI), Java server pages, Java Database Connectivity (JDBC), public key infrastructure (PKI), mobile applications, and security. Student must be enrolled in CISP 24L, a concurrent lab co-requisite. Course Schedule

CISP 24L Advanced Java Laboratory

0.5 Units (Degree Applicable, CSU, UC) Lab: 27 Corequisite: CISP 24 Advisory: CISP 21 and CISP 21L

Laboratory for advanced programming concepts using Java: designing, coding, testing, and implementing multi-tier applications in serialization, multithreading, Advanced Swing Components (ASC), networking, serverside technology which include servlets, remote method invocation (RMI), Java server pages, Java Database Connectivity (JDBC), public key infrastructure (PKI), mobile applications, and security. Student must be enrolled in CISP 24, a concurrent lecture co-requisite. Course Schedule

CISP 31 Programming in C++

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: CISP 31L Advisory: CISP 10 or (CISP 11 and CISP 11L) or (CISP 21 and CISP 21L)

Object-oriented programming in C++ including object-oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, and single and multiple inheritance. Student must be enrolled in CISP 31L, a concurrent laboratory co-requisite. Course Schedule

CISP 31L Programming in C++ Laboratory 0.5 Units (Degree Applicable, CSU, UC) Lab: 27

Corequisite: CISP 31

Laboratory for object-oriented programming in C++ including objectoriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, and single and multiple inheritance. Student must be enrolled in CISP 31, a concurrent lecture co-requisite. Course Schedule

CISP 34 Advanced C++ Programming

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: CISP 34L Advisory: CISP 31 and CISP 31L

Object-oriented programming in C++ concepts and principles. Covers data structures: vectors, linked lists, queues, stacks & hash tables. Also graphical-user interface (GUI), database access & web services.Student must be enrolled in CISP 34L, a concurrent lab co-requisite. Course Schedule

CISP 34L Advanced C++ Programming Laboratory

0.5 Units (Degree Applicable, CSU, UC) Lab: 27 Corequisite: CISP 34

Laboratory for object-oriented programming in C++ concepts. Covers principles covers data structures: vectors, linked lists, queues, stacks & hash tables. Also graphical-user interface (GUI), database access & web services.Student must be enrolled in CISP 34, a concurrent lecture corequisite.

Course Schedule

CISP 41 Programming in C#

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISP 41L Advisory: CISP 10 and CISB 11 and CISB 15

Programming in C# using Windows Forms and Web Forms. Course covers control structures (loops, if statements, and switch blocks), database access, multiple forms, and object-oriented programming concepts. Student must be enrolled in CISP 41L, a concurrent lab corequisite.

Course Schedule

CISP 41L Programming in C# Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISP 41

Laboratory for programming in C# using Windows Forms and Web Forms. Course covers control structures (loops, if statements, and switch blocks), database access, multiple forms, and object-oriented programming concepts. Student must be enrolled in CISP 41, a concurrent lecture co-requisite. Course Schedule

CISP 52 Mobile Device Programming

3 Units (Degree Applicable) Lecture: 54 Corequisite: CISP 52L Advisory: CISP 10 and CISW 21

User interface patterns and design, connectivity, and application (app) architecture and design. Student must be enrolled in CISP 52L, a concurrent lab co-requisite. Course Schedule

CISP 52L Mobile Device Programming Laboratory

0.5 Units (Degree Applicable) Lab: 27 Corequisite: CISP 52

User interface, connectivity, and application (app) architecture and design. Student must be enrolled in CISP 52, a concurrent lecture co-requisite. Course Schedule

CISP 53 iOS Programming

3 Units (Degree Applicable) Lecture: 54 Corequisite: CISP53L Advisory: CISP10, CISP52, and CISP52L

Programming for iOS devices covers user interface patterns and design, connectivity, and application (app) architecture. Students must be enrolled in CISP 53L, a concurrent lab co-requisite. Course Schedule

CISP 53L iOS Programming Laboratory

0.5 Units (Degree Applicable) Lab: 27 Corequisite: CISP 53

iOS programming laboratory: user interface, connectivity, and application (app) architecture and design. Student must be enrolled in CISP 53, a concurrent lecture co-requisite. Course Schedule

CISP 54 Programming for Android Devices

3 Units (Degree Applicable) Lecture: 54 Corequisite: CISP54L Advisory: CISP10, CISP52 and CISP52L

Android device programming, user interface patterns and design, connectivity, and application (app) architecture with an emphasis on creating effective mobile apps. Student must be enrolled in CISP 54L, a concurrent lab co-requisite. Course Schedule

CISP 54L Android Programming Laboratory

0.5 Units (Degree Applicable) Lab: 27 Corequisite: CISP54

Laboratory for Android programming user interface, connectivity, and application (app) architecture and design. Student must be enrolled in CISP 54, a concurrent lecture co-requisite. Course Schedule

CISP 61 Introduction to Game Programming 3 Units (Not Degree Applicable, CSU) Lecture: 54 Corequisite: CISP 61L Advisory: CISP 31 and CISP 34

Game programming technologies and techniques, including programming languages and IDEs (Integrated Development Environment), libraries and engines, development design and principles, and application of game specific programming techniques. Student must be enrolled in CISP 61L concurrently. Course Schedule

CISP 61L Introduction to Game Programming Laboratory

0.5 Units (Not Degree Applicable, CSU) Lab: 27 Corequisite: CISP 61

Provides practical implementation of game development using different software packages. Student must be enrolled in CISP 61, a concurrent lecture co-requisite. Course Schedule

CISP 62 Introduction to OpenGL

3 Units (Not Degree Applicable) Lecture: 54 Corequisite: CISP 62L Advisory: CISP 34 and CISP 34L

Programming and creating 3D animated games with OpenGL Course Schedule

CISP 62L Introduction to OpenGL Laboratory

0.5 Units (Not Degree Applicable) Lab: 27 Corequisite: CISP 62

The course provides practical implementation of OpenGL programming. Student must take CISP 62, a concurrent lecture co-requisite. Course Schedule

Computer Information Systems: Security (CISS)

CISS 11 Practical Computer Security 2 Units (Degree Applicable) Lecture: 27 Lab: 27 Advisory: CISB 11

Computer security for all computer users. Provides awareness for computer users to protect user accounts and computer systems from attacks. Projects illustrate security software and hardware configuration. Course Schedule

CISS 13 Principles of Information Systems Security

4 Units (Degree Applicable) Lecture: 72 Advisory: CISS 11 and CISB 11

Certified Information Systems Security Professional (CISSP) exam course preparation including legal, business, and ethical topics. Course Schedule

CISS 15 Operating Systems Security 3 Units (Degree Applicable)

Lecture: 54 Advisory: CISB 11 or CISN 21

Operating systems security concepts and techniques: covers how attackers operate, how viruses strike, strengthening operating systems, repelling attacks, and applying security techniques to different operating systems like Windows, Unix, Linux, etc. **Course Schedule**

CISS 21 Network Vulnerabilities and Countermeasures

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISS 21L Advisory: CISN 11 or CISN 24 or CISN 51

Network vulnerabilities from a hacker's perspective. Cyber security legal and ethical issues. Written security, use policy, and instance response policy. Scanning and penetration tests, vulnerability assessments and countermeasures for Windows and Linux operating systems. Secure programming, virtual private network (VPN), cryptography, wireless, Web, and remote access securities. Student must be enrolled in CISS 21L, a concurrent lab co-requisite.

Course Schedule

CISS 21L Network Vulnerabilities and Countermeasures Laboratory 0.5 Units (Degree Applicable, CSU)

Lab: 27 Corequisite: CISS 21

Laboratory for network vulnerabilities from a hacker's perspective. Cyber security legal and ethical issues. Written security, use policy, and instance response policy. Scanning and penetration tests, vulnerability assessments and countermeasures for Windows and Linux operating systems. Secure programming, virtual private network (VPN), cryptography, wireless, Web, and remote access securities. Student must be enrolled in CISS 21, a concurrent lecture co-requisite. **Course Schedule**

CISS 23 Network Analysis, Intrusion Detection/Prevention Systems

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISS 23L Advisory: CISN 11 or CISN 24 or CISN 51

WireShark, Netflow network analyzer, and computer forensic tools to troubleshoot network problems and monitor network traffics. Detect and block network attacks with standalone Cisco Intrusion Detection Systems and Intrusion Prevention Systems (IDS/IPS), integrated Cisco Adaptive Security Appliance (ASA) IPS, Linux Snort and Windows IDS/IPS.Student must be enrolled in CISS 23L, a concurrent lab co-requisite. **Course Schedule**

CISS 23L Network Analysis, Intrusion Detection/Prevention Systems Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISS 23

Laboratory course using WireShark, Netflow network analyzer, and computer forensic tools to troubleshoot network problems and monitor network traffics. Detect and block network attacks with standalone Cisco Intrusion Detection Systems and Intrusion Prevention Systems (IDS/ IPS), integrated Cisco Adaptive Security Appliance (ASA) IPS, Linux Snort and Windows IDS/IPS. Student must be enrolled in CISS 23, a concurrent lecture co-requisite. Course Schedule

CISS 25 Network Security and Firewalls

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISS 25L Advisory: (CISN 11 and CISN 11L) or (CISN 24 and CISN 24L) or (CISN 51 and CISN 51L)

Design, configure, and implement firewalls to secure enterprise, medium, and small businesses networks. Cisco Adaptive Security Appliance (ASA) with intrusion prevention system (IPS) and Linux firewall with IPS integration. Site to site and remote client Virtual Private Network (VPN), Access Control Lists (ACL), content filtering, Confidentiality Integrity Availability (CIA), Radius, and Certificate Authentication (CA). Cisco ASA and Linux firewall troubleshooting technique. Student must enroll in CISS 25L concurrently. Course Schedule

CISS 25L Network Security and Firewalls Laboratory

0.5 Units (Degree Applicable, CSU) Lab: 27 Corequisite: CISS 25

Laboratory to design, configure, and implement firewall to secure enterprise, medium, and small businesses networks. Cisco Adaptive Security Appliance (ASA) with intrusion prevention system (IPS) and Linux firewall with IPS integration. Site to site and remote client Virtual Private Network (VPN), Access Control Lists (ACL), content filtering, Confidentiality Integrity Availability (CIA), Radius, and Certificate Authentication (CA). Cisco ASA and Linux firewall troubleshooting technique. Student must enroll in CISS 25, a concurrent lecture corequisite.

Course Schedule

CISS 27 Cyber Defense

1 Unit (Degree Applicable) Lab: 54

Cyber security hands-on activities in defending, responding, mitigating, and analyzing attacks through IT infrastructure and application service vulnerabilities. Prepare students to secure, configure, monitor, and analyze computer, switch, router, firewall, Intrusion Prevention Systems (IPS), Voice over IP (VoIP), smart phone, and application services such as Web, email, Structured Query Language (SQL) database, Domain Name Systems (DNS), and Virtual Private Network (VPN). **Course Schedule**

CISS 29 CNASM Service Learning

1 Unit (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lab: 54

Explore career objectives and advanced skills from Computer Network Administration and Security Management (CNASM) courses through lab activities and community services. **Course Schedule**

Computer Information Systems: Web Applications (CISW)

CISW 15 Web Site Development 3.5 Units (Degree Applicable, CSU) Lecture: 54 Lab: 27 Advisory: CISB 15 or CISB 16

Plan, develop, implement, publish, and maintain Web sites with a professional visual Web-authoring application, includes working with text and images, internal and external hyperlinks, image maps, tables, Cascading Style Sheets (CSS), Web page content, Web forms, multimedia objects (Flash text, Flash buttons, sounds, and video), interactions and behaviors, and Web page templates. Principles of Web site structures, documentation, management, and maintenance will be discussed. **Course Schedule**

CISW 17 HTML, CSS & JavaScript Programming

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: CISB 11

Plan, program, implement, publish and maintain web sites using Hypertext Markup Language version 5 (HTML5), Cascading Style Sheets version 3 (CSS3), and JavaScript. Includes working with text, semantic and multimedia objects, tables, forms, Application Programming Interfaces (APIs), Document Object Model (DOM), cross-browser compatibility, markup validation, client-side interactivity, and principles of web page design, web site construction, documentation, and publishing. **Course Schedule**

CISW 21 Secure Web Programming with ASP.NET

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: CISW 21L Advisory: CISB 15

Secure Web programming using programming, scripting and markup languages such as eXtensible Markup Language(XML), XML HyperText Markup Language (XHTML), Dynamic HTML, Javascript, Asynchronous Javascript and XML (AJAX), and Active Server Pages .NET (ASP.NET) with Visual Basic .NET (VB.NET) or C Sharp (C#) for designing user interfaces, processing user input, and accessing Web servers and databases. Students must be enrolled in CISW 21L, a concurrent lab co-requisite. Course Schedule

CISW 21L Secure Web Programming with ASP.NET Laboratory 0.5 Units (Degree Applicable, CSU) Lab: 27

Corequisite: CISW 21

Laboratory for secure Web server programming using programming, scripting and markup languages such as XML (eXtensible Markup Language), XHTML (XML HyperText Markup Language), Dynamic HTML, Javascript, AJAX (Asynchronous Javascript and XML), and ASP.NET (Active Server Pages .NET) with VB.NET (Visual Basic .NET) or C# (C Sharp) for designing user interfaces, processing user input, and accessing Web servers and databases. Student must be enrolled in CISW 21, a concurrent lecture co-requisite. **Course Schedule**

CISW 24 Secure Server Side Web Programming

3 Units (Degree Applicable) Lecture: 54 Corequisite: CISW 24L

Secure web programming to create user interfaces, extract information and manage databases, manage files, format reports, and access web servers by using Practical Extraction and Report Language (PERL), Python, Ruby or any Web scripting or programming language.Student must be enrolled in CISW 24L, a concurrent lab co-requisite. **Course Schedule**

CISW 24L Secure Server Side Web Programming Laboratory 0.5 Units (Degree Applicable) Lab: 27

Corequisite: CISW 24

Laboratory for secure web programming to create user interfaces, extract information and manage databases, manage files, format reports, and access web servers by using Practical Extraction and Reporting Language (PERL), Python, Ruby or any Web scripting or programming language.Student must be enrolled in CISW 24, a concurrent lecture corequisite.

Course Schedule

CISW 31 Secure Web Servers

3 Units (Degree Applicable) Lecture: 54 Corequisite: CISW 31L Advisory: (CISN 34 and CISN 34L) or (CISW 24 and CISW 24L)

Plan, install, and manage secure Apache Web servers using server side programming language like PHP (PHP. Hypertext Preprocessor) to access, manage, and secure MySQL databases. Student must be enrolled in CISW 31L, a concurrent lab co-requisite. **Course Schedule**

CISW 31L Secure Web Servers Laboratory

0.5 Units (Degree Applicable) Lab: 27 Corequisite: CISW 31

Plan, install and manage secure Apache Web servers using server side programming language like PHP to access, manage and secure MySQL databases. Student must be enrolled in CISW 31, a concurrent lecture corequisite.

CISW 41 XML Secure Programming 3 Units (Degree Applicable) Lecture: 54 Advisory: CISW 21 and CISW 21L

Principles, components and secure programming of Extensible Markup Language (XML). Also includes Extensible Stylesheet Language Transformation (XSLT), XML Path Language (XPath), Extensible Stylesheet Language Formatting Objects (XSL-FO), Document Type Definition (DTD), XML Schema, and XML Namespaces. Course Schedule

Computer Science (CSCI)

CSCI 110 Fundamentals of Computer Science 3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27 Prerequisite: MATH 71 or MATH 71B or MATH71X Advisory: Eligibility for ENGL 1A

Computer hardware and software. General computer organization and information representation. Binary and hexadecimal number systems. Algorithm design and problem-solving techniques. Introduction to programming using a high level language (C, C++ or Java.) Course Schedule

CSCI 140 C++ Language and Object Development

4 Units (Degree Applicable, CSU, UC, C-ID #: COMP 122) Lecture: 54 Lab: 54 Prerequisite: CSCI 110

For computer science, mathematics, engineering and other science students. C++ programming and object-oriented paradigm. Control structures, functions, arrays, pointers and strings, classes and data abstraction, C++ object programming, operator overloading, inheritance, virtual functions and polymorphism, stream input and output, templates, exception handling, file processing. Data structures in C++, string processing and recursion. Course Schedule

CSCI 145 Java Language and Object Oriented Programming

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: CSCI 110

Java language and object oriented programming with Java as well as general concepts and techniques of computer programming. Topics include: Java expressions, flow control, methods and program structure, Java classes, overloading, object references, inheritance, Java library packages, exceptions, file I/O, applets, GUI, and event handling. A course for computer science, engineering, mathematics, and other science students

Course Schedule

CSCI 150 Assembly Language/Machine Architecture

3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27 Prerequisite: CSCI 110 Advisory: CSCI 140 or CSCI 145

Organization and operation of real computer systems at the assembly language level using the Intel 80x86 family of processors; mapping statements and constructs in a high-level language onto sequences of machine instructions; internal representations of simple data types and structures; numerical computation, noting various data representation errors and potential procedural errors; investigation of basic principles of operating systems; and programming language translation process. Course Schedule

CSCI 170 Introduction to Unix Operating System

3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27 Prerequisite: CSCI 110

For computer science, mathematics, engineering and other science students. Introduction to the UNIX operating system, system administration and networking. Topics include: process synchronization and communication mechanisms, process management, scheduling and protection, memory organization and management, virtual memory, I/O devices management, file systems, networking, system administration for UNIX.

Course Schedule

CSCI 190 Discrete Mathematics Applied to Computer Science

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 71 or equivalent

A study of set theory, propositional and predicate calculus, modular arithmetic, counting techniques, combinatorics, mathematical induction, recursion, binary search trees, graphs and finite probability. For students in computers science, engineering, mathematics and other sciences. Course Schedule

CSCI 220 Data Structures I

3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27 Prerequisite: CSCI 140 or CSCI 145

Abstract data types and running time analysis tools. Linear data structures including sets, stacks, queues, and linked lists. Trees, binary search trees, heaps, and priority queues. Many procedures are discussed using an algorithmic language and selected problems are programmed in a higher level language. Course Schedule

CSCI 230 Data Structures II

3.5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 27 Prerequisite: CSCI 220

Basic searching/sorting algorithms, hashing, graphs, memory/disk management, indexing, B-trees, advanced tree structures and analysis. Course Schedule

Counseling (COUN)

COUN 1 Introduction to College

1 Unit (Degree Applicable, CSU, UC) (May be taken for Pass/No Pass only) Lecture: 18

Higher education and the college experience including orientation to college life and higher education resources. Explores graduation, transfer, career options, factors in educational decision making, and educational planning.

Course Schedule

COUN 1H Introduction to College - Honors

1 Unit (Degree Applicable, CSU, UC) Lecture: 18 Prerequisite: Acceptance into Honors Program.

Higher education and the college experience. Orientation to college life and resources. Explores graduation, transfer, career options, factors in educational decision making and educational planning. Course Schedule

COUN 2 College Success Strategies

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Strategies and techniques to be an effective college student including time management, study skills, college resources, career exploration and educational planning. Develop skills necessary to reach educational and career goals.

Course Schedule

COUN 5 Career and Life Planning

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68 Advisory: Eligibility for AMLA 33R or Eligibility for READ 90

A systematic approach to self-exploration related to the career and life planning process, including identification of values, interests, skills, and self-management style. Develop decision making and goal setting skills and identify barriers to success. Explores and evaluates careers and job search techniques. Course Schedule

COUN 7 Introduction to the Transfer Process

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Advisory: Eligibility for ENGL 1A

Exploration of transfer requirements, admission procedures and requirements for majors. Explore academic and support services, financial aid and other transitional issues to enable students to make informed choices on majors, four-year institutions and academic planning. Field trips are required. Course Schedule COUN 20 Peer Counselor Training 2 Units (Degree Applicable, CSU) Lecture: 36 Prerequisite: Eligibility for ENGL 68

Group experience with interpersonal communication and approaches to peer counseling and advising at Mt. SAC. Provide opportunities to develop skills with a variety of communication styles that include open expression, active listening, and feedback. Opportunities may be available for students to become employed as peer counselors. Course Schedule

COUN 51 Career Planning

1 Unit (Degree Applicable, CSU) Lecture: 18

An abbreviated career planning course designed for students who want assistance in making informed career decisions. A variety of assessments, inventories, and computer generated information will be used to help students explore careers and majors. Course Schedule

COUN 54 Single Parent Academy

3 Units (Degree Applicable) Lecture: 54

Explores and develops strategies and techniques to be an effective college student as a single parent. Strategies include time management, study skills, college resources, decision making, goal setting, career exploration and educational planning. Course Schedule

COUN 99A Special Projects in Counseling

0.5-3 Units (Degree Applicable, CSU) Lecture: 8-48

Opportunity to explore academic interest and aspirations in greater depth. Instructor's authorization is required. A field trip may be required. Course Schedule

Dance: Activity (DNCE)

DNCE 1 Ballet Fundamentals

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-108

Introduces fundamental vocabulary, technique, and movement combinations for ballet. Includes floor work, barre work, center work, floor progressions, and musicality and phrasing. Course Schedule

DNCE 2A Ballet I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning vocabulary, technique, and movement combinations for ballet. Includes barre work, center floor work, floor progressions, preparation for turning, and musicality and phrasing. Course Schedule

DNCE 2B Ballet II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Intermediate technique, vocabulary and movement combinations for ballet. Includes intermediate barre work, demi-pointe work, use of epaulement and increasingly difficult center floor combinations. Students who repeat this course will improve proficiency through continued instruction and practice. Course Schedule

DNCE 3 Ballet Performance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Introduces the experienced dance student to the performance aspect of ballet. Includes advanced barre work, center work, floor progressions, and performance of classical ballet variations. Course Schedule

DNCE 4 Choreography

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-108 Prerequisite: DNCE 12A or DNCE 12B or DNCE 13

Designed for the experienced dancer to learn the techniques of choreography, forms and compositional design. Course Schedule

DNCE 8 Latin Dance I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Latin styles of dance. Includes Cha Cha, Samba, Rumba, Pasodoble and Jive. Course Schedule

DNCE 10 Modern Fundamentals

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Fundamental vocabulary, technique, and movement combinations for Modern Dance. Includes floor work, center work, floor progressions, musicality and phrasing. Course Schedule

DNCE 11A Social Dance Forms I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Fundamentals of music, dance positions, dance formations, and choreography to be used in the study of, but not limited to Swing, Salsa, Waltz, Foxtrot, and Tango. Course Schedule

DNCE 11B Social Dance Forms II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Advanced study of dance positions, dance formations, music and choreography to be used in the study of, but not limited to Swing, Salsa, Waltz, Foxtrot and Tango. Course Schedule

DNCE 12A Modern I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning terminology, technique, and movement combinations for Modern dance. Course Schedule

DNCE 12B Modern II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Intermediate terminology, technique, and movement combinations for Modern dance. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

DNCE 13 Modern Performance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Performance aspects of Modern dance, including advanced terminology, technique, choreographic elements, and performance for the experienced dance student. Course Schedule

DNCE 14A Jazz I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning vocabulary, technique, and movement combinations for jazz dance. Includes warm-up, progressions and center floor routines. Course Schedule

DNCE 14B Jazz II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Intermediate vocabulary, technique, and movement combinations for jazz dance. Includes warm-up, progressions, and center floor routines. Course Schedule

DNCE 15 Jazz Performance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Introduces the experienced dancer to the performance styles and techniques of jazz dance. Includes advanced warm-up, floor progressions and performance of complex jazz dance routines. Course Schedule

DNCE 17 Jazz Fundamentals

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-108

Introduces fundamental vocabulary, technique, and movement combinations for jazz dance. Includes floor work, center work, floor progressions, routines and musicality and phrasing. Course Schedule

DNCE 18A Tap I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning level technique, rhythms and routines for tap dance. Course Schedule

DNCE 18B Tap II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Intermediate technique, rhythms, and routines for tap dance. Course Schedule

DNCE 19 Tap Performance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Introduces the experienced dancer to the performance aspects of tap by providing advanced techniques leading to the performance of compositions. Course Schedule

DNCE 22 Dance Rehearsal

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Designed for the experienced dancer to work in a rehearsal environment and to be a participant in the beginning elements of concert production. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

DNCE 24 Dance Production

1-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 54-108

Designed for the experienced dancer to apply previously learned choreographic skill, to conduct stage rehearsals and learn costuming techniques. Course Schedule

DNCE 28 Theater Dance I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Simple dance excerpts from various theater musicals and/or movies. Course Schedule

DNCE 29 Theater Dance II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Advanced theatre dance variations for the technically skilled dancer drawn from a variety of theater musicals and/or movies. Includes concepts of acting and staging incorporated with musical theatre choreography. Course Schedule

DNCE 30 Contemporary Dance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Advisories: DNCE12B and DNCE 13

Intermediate to advanced terminology, technique, and movement combinations for Contemporary dance. Course Schedule

DNCE 31 Classical Dance

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-108

Advanced ballet repertoire focusing on the different schools of technique including Balanchine, Bournonville, and Vaganova. Course Schedule

DNCE 32 Commercial Dance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning terminology, styles, techniques, and movement combinations for Hip Hop dance. Includes Hip Hop choreographic skills. Course Schedule

DNCE 33 Improvisation

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning to advanced improvisation in dance and choreography. Course Schedule

DNCE 34 Dance Directives

0.5-1 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54 Prerequisite: Admission by audition

Provides the intermediate or advanced student the practical experience to assist an instructor in the creation and instruction of a dance class. Course Schedule

DNCE 35 Repertory

2 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition

Provides the opportunity for the advanced dancer to learn choreography and to perform repertory pieces at workshops and special events. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

DNCE 36 Commercial Dance II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Styles of Hip Hop dance. Intermediate and advanced levels of Hip Hop dance routines. Includes Hip Hop choreographic skills. Course Schedule

DNCE 39A Alignment and Correctives I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Pilates method of conditioning. Includes mat-work, Reformer and special conditioning exercises and body awareness resulting in improved alignment, strength, flexibility, control, coordination and breathing. Course Schedule

DNCE 40 Conditioning Through Dance

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility, and range of motion. Designed for the dancer and non-dancer.

Course Schedule

DNCE 41 Pilates I

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54 Advisory: DNCE 39A

Pilates beginning and intermediate Mat work and beginning Reformer. Includes Pilatesstick and the Magic Circle. Course Schedule

DNCE 42 Pilates II

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54 Advisory: DNCE 41

Pilates intermediate mat, Reformer and Pilatesstick. Beginning Wunda Chair, Step Barrel and Ped-a-Pul. Includes use of physioball in Mat work. Course Schedule

DNCE 43 Pilates III

0.5-1 Units (Degree Applicable, CSU, UC) Lab: 36-54 Prerequisite: DNCE 42

Pilates intermediate and advanced mat, Reformer (with use of Jumpboard), Wunda Chair (with use of split pedal), and Pilatesstick. Includes beginning Cadillac and High Barrel. Course Schedule

Dance: Theory (DN-T)

DN-T 18 Introduction to Dance 1.5 Units (Degree Applicable, CSU, UC) Lecture: 18 Lab: 27

A survey of the profession of dance through lecture, discussion, demonstration, and participation. Includes philosophies, historical overviews of each genre, and the study of vocational roles in dance. This course will include participation and a general overview in dance forms such as ballet, modern, jazz, and cultural dance. Course Schedule

DN-T 20 History and Appreciation of Dance

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 68

Theatrical dance in western civilization. History of dance in chronological sequence emphasizing the cultural background and historical development of various forms and styles of dance to include discussion of the influence of theatrical dance on other art forms. Course Schedule

DN-T 27 Theory and Principles of Pilates

3 Units (Degree Applicable) Lecture: 54 Corequisite: DNCE 39A (may have been taken previously)

Teaching skills for the Pilates method of physical and mental conditioning. Concepts and principles as applied to the mat and apparatus repertoire. Course Schedule

DN-T 28 Functional Anatomy for Pilates

2 Units (Degree Applicable) Lecture: 36 Advisory: DNCE 39A

Functional human anatomy as applied to the Pilates method of conditioning. Course Schedule

DN-T 29 Teaching Pilates Mat Repertoire

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Corequisite: DN-T 27 (may have been taken previously)

Learning to teach the Pilates mat exercises and principles. Includes basic, intermediate, and advanced levels focusing on pedagogy and the development of correct neuromuscular patterning. Course Schedule

DN-T 30 Teaching Pilates Reformer Repertoire

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: DN-T 29

Learning to teach the Pilates Reformer exercises and principles. All levels are covered with a focus on the development of correct neuromuscular patterning. Course Schedule

DN-T 31 Pilates Teaching-Mat and Reformer

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Prerequisite: DN-T 28 and DN-T 30

Prepares students to teach Pilates in a variety of settings and situations. Teaching reinforces knowledge and understanding of the Pilates exercises. Includes lecture, observation, self-integration, assistant teaching, one-on-one teaching and content. Off-campus observations may be required. Course Schedule

DN-T 32 Teaching Pilates Cadillac and Wunda Chair Repertoire

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: DN-T 27 and DN-T 29 and DN-T 30

Learning to teach the Pilates repertoire of exercises on the Cadillac and Wunda Chair. All levels are covered with a focus on the development of correct neuromuscular patterning. Course Schedule

DN-T 33 Teaching Pilates Ped-a-Pul, Barrels and Auxiliary Equipment Repertoire

1.5 Units (Degree Applicable) Lecture: 18 Lab: 36 Prerequisite: DN-T 30 and DN-T 32

Learning to teach Pilates exercises on the following apparatus: Ped-a-Pul, Ladder Barrel, Step Barrel, Arc Barrel, Magic Circle, C-cushion, and props. All levels are covered with a focus on the development of correct neuromuscular patterning. Course Schedule

DN-T 34 Pilates Teaching-Cadillac, Wunda Chair & Auxiliary Equipment 3 Units (Degree Applicable) Lecture: 18 Lab: 108

Prerequisite: DN-T 33

Prepares students to teach Pilates in a variety of settings and situations. Teaching reinforces knowledge and understanding of the Pilates exercises and concepts. Includes lecture, observation, self-integration, assistant teaching, and one-on-one teaching. Off-campus observations may be required. Course Schedule

DN-T 38 Dance Teaching Methods

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Corequisite: DNCE 2B or DNCE 12B or DNCE 14B

The application of pedagogical methods in dance. Explores teaching strategies, imagery, motivational techniques, music for class instruction, and injury prevention. Focus is on the genres of ballet, jazz, and modern dance. Course will involve on- and off-campus dance teaching observations.

Course Schedule

Disabled Students (DSPS)

DSPS 12 Career Exploration and Planning 3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54 Advisory: Eligibility for ENGL 67 and eligibility for READ 80

Systematic approach to self-exploration, occupational research, and career decision-making. Students will identify interests, personality style, and skills. Educational and functional limitations, as well as reasonable accommodations will be explored. Designed for students with disabilities. Course Schedule

DSPS 13 Orientation to College for Students with Disabilities 1 Unit (Not Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Examine the college experience in relationship to disabilities. Develop an understanding of how disability related factors may influence the educational decision-making process. Course Schedule

DSPS 25 Language Development for Deaf Students in ASL and English

2 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 108

Language Development for Deaf or hard of hearing students who use sign language to improve written English and ASL communication. Course Schedule

DSPS 26 Language Enhancement for Deaf Students in ASL and English

2 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 108 Advisory: DSPS 25

Language Enhancement for Deaf or hard of hearing students who use sign language to improve written English and ASL communication. Course Schedule

DSPS 30 Academic Success Strategies for Students with Disabilities

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 54

Strategies for academic success intended for students with physical or learning-related disabilities. Addresses language, memory and reasoning with subject-specific techniques. Course Schedule

DSPS 31 Memory Strategies for Students with Disabilities

3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54 Advisory: Eligibility for READ 80. Student should have at least one other academic class for application of strategies.

Principles of the memory process as it applies to academic coursework. Focuses on the memory process, improving specific memory components, identifying key concepts to memorize, and the independent application of memory strategies to other academic courses. Course Schedule

DSPS 32 Technology for Students with Learning Related Disabilities

3 Units (Not Degree Applicable)

(May be taken for Pass/No Pass only)

Lecture: 54

Advisory: Eligibility for ENGL 67 or AMLA 42W and Eligibility for READ 80 or AMLA 32R. Concurrent enrollment in an academic class that requires reading and writing.

Students with learning related disabilities can improve reading comprehension and written expression through the use of technology. A variety of strategies using technology will be introduced to aid students in understanding reading assignments and in expressing their ideas in writing. Students will select several technological strategies to explore in-depth and will apply these strategies in academic classes. Concurrent enrollment in an academic class that requires reading and writing is advised.

Course Schedule

DSPS 33 Strategies for Success in Math for Students with Disabilities 3 Units (Not Degree Applicable)

(May be taken for Pass/No Pass only) Lecture: 54 Advisory: Concurrent enrollment in MATH 50 to MATH 130

Strategies for students currently in math courses for academic success in relationship to disabilities. Emphasis on effects of and strategies for processing, language expression, memory, reasoning, and processing speed as they relate to math. Course Schedule

DSPS 34 Writing Strategies

3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54 Prerequisite: Eligibility for ENGL 67

Strategies for success for students who struggle with writing concurrently enrolled in ENGL 67, 68, 1A, 1B, or 1C classes. These strategies are applied to their English writing assignments by supporting the student's strengths and compensating for their weaknesses in writing.

Course Schedule

Education (EDUC)

EDUC 10 Introduction to Education 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Concepts and issues related to teaching diverse learners in contemporary public schools (K-12). Topics include historical and philosophical foundations of America education, teaching as a profession and career, contemporary education issues, California content standards, and teacher performance standards. In addition to class time, the course requires 45 hours of structured classroom observations. Proofs of a negative TB test and fingerprint clearance are required for classroom observations.

Course Schedule

EDUC 16 Aspects and Issues in Teaching

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 68

Survey of the teaching profession, including teaching and learning styles, state content standards and testing, recent California and national legislation, social issues, school funding and teacher and student rights and responsibilities. Off-site assignments may be required. Course Schedule

Electronics (ELEC)

ELEC 10 Introduction to Mechatronics 2 Units (Not Degree Applicable) Lecture: 18 Lab: 54

A combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hands-on activities include the building of a robot. Course Schedule

ELEC 11 Technical Applications in Microcomputers

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Personal computer (PC) applications used in electronics technology. Includes word processing, spreadsheets, database, computer presentation methods, and internet research specifically designed for electronics technology. Course Schedule

ELEC 12 Computer Simulation and Troubleshooting

2 Units (Degree Applicable) Lecture: 18 Lab: 54 Advisory: ELEC 51 and ELEC 56 taken prior

Troubleshooting of electronic hardware, including use of computer-based tools for simulation and troubleshooting of analog and digital circuits. National Instruments Multisim software will be used for circuit analysis, value substitution, and fault diagnostics. Course Schedule

ELEC 50A Electronic Circuits - Direct Current (DC) 4 Units (Degree Applicable, CSU)

Lecture: 54 Lab: 54 Advisory: Eligibility for MATH 51

Direct Current (DC) electrical circuits and their applications. Covers DC sources, analysis, test equipment, measurements, and troubleshooting of resistive devices and other basic components. Includes Ohm's Law, Kirchhoff's law, and network theorems. (Students seeking a survey course in electronics should take ELEC 10, Introduction to Mechatronics, rather than ELEC 50A or 50B.) Course Schedule

ELEC 50B Electronic Circuits (AC)

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: ELEC 50A taken prior

Alternating Current (AC) electrical circuits and their applications. Covers AC sources, analysis (using complex numbers), test equipment, measurements, and troubleshooting of basic circuits with capacitors, inductors, and resistors. Includes impedance, resonance, filters, and decibels.

Course Schedule

ELEC 51 Semiconductor Devices and Circuits

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: ELEC 50B

Solid-state devices and circuits, including bipolar-junction and field-effect transistors, rectifier diodes, operational amplifiers, and thyristors. Analog circuits studied include discrete and integrated circuit amplifiers, voltage regulators, oscillators and timers. Emphasizes configurations, classes, load lines, characteristic curves, gain, troubleshooting, measurements, and frequency response. Course Schedule

ELEC 53 Communications Systems

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: ELEC 51 taken prior or concurrently

Analog and digital communications systems. Emphasizes analog and digital modulation principles, multiplexing, protocols, and telecommunications circuits and systems. Course Schedule

ELEC 54A Industrial Electronics

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: ELEC 50A and ELEC 50B taken prior

Industrial electronic components and basic control circuits. Includes time delay controls, thyristor controls, relays, optoelectronic (opto) devices, direct current (DC) and alternating current (AC) motor control, transducers, silicon controlled rectifier (SCR) and unijunction transistor (UJT) devices. Course Schedule

ELEC 54B Industrial Electronic Systems

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Systems application of industrial electronics including industrial production and processes, automation, and programmable and motor controllers. Emphasis is on programmable logic controllers (PLCs). Course Schedule

ELEC 55 Microwave Communications

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: ELEC 50B taken prior

Microwave components and circuits. Stresses transmission lines, Smith Charts, impedance matching, antenna characteristics, wave propagation, frequency analysis and measurement techniques. Course Schedule

ELEC 56 Digital Electronics

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54

Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques. Course Schedule

ELEC 61 Electronic Assembly and Fabrication

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Advisory: ELEC 50A and ELEC 50B

Manufacturing and fabrication processes associated with the electronics industry. Printed circuit board (PCB) design from conception to completion. Emphasizes electrical schematics, bill of material (BOM), component selection, layout design, manufacturability, assembly, soldering, de-soldering, and surface-mount technology. Course Schedule

ELEC 62 Advanced Surface Mount Assembly and Rework

2 Units (Degree Applicable) Lecture: 18 Lab: 54 Advisory: ELEC 61

Advanced course in assembly and repair (soldering) on surface mount assemblies (SMT). Prepares for the IPC surface mount assembly and rework certifications. Course Schedule

ELEC 74 Microcontroller Systems

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: ELEC 56

Microcontroller systems and programming methods; programmable logic devices (PLDs); serial communications; conversion of signals from analog to digital formats and the converse. Industry applications, interfacing, and troubleshooting. **Course Schedule**

ELEC 76 FCC General Radiotelephone Operator License Preparation

2 Units (Not Degree Applicable) Lecture: 18 Lab: 54 Advisory: ELEC 50B

Prepares gualified electronics and aviation technicians for the Federal Communications Commission (FCC) commercial General Radiotelephone Operator License (GROL). **Course Schedule**

ELEC 81 Laboratory Studies in Electronics Technology

1-2 Units (Degree Applicable) Lab: 54-108 Advisory: ELEC 50B taken prior or concurrently

Extended laboratory experience supplementary to that available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments. **Course Schedule**

ELEC 91 Work Experience in Electronics

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ELEC 56

Provides actual on-the-job experience in electronics at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Course Schedule

Electronics Systems Technology (EST)

EST 50 Electrical Fundamentals for Cable Installations 4 Units (Degree Applicable) Lecture: 54 Lab: 54

Electrical fundamentals for cable and wire installations, and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license.

Course Schedule

EST 52 Fabrication Techniques for Cable Installations 4 Units (Degree Applicable)

Lecture: 54 Lab: 54

Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations. Prepares students for the California State Contractors C-7 low voltage systems license. **Course Schedule**

EST 54 Cabling and Wiring Standards

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: EST 50

Cable and wire standards of video, voice, and data wiring for home theater, computer networks, home automation, telecommunications, and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 low voltage systems license. **Course Schedule**

EST 56 Home Theater, Home Integration, & Home Security Systems 4 Units (Degree Applicable)

Lecture: 54 Lab: 54 Advisory: EST 54

Home theater, home integration, home management Power Line Carriers (PLCs), security hardware and programming, and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 low voltage systems license. Course Schedule

EST 62 Electronic Troubleshooting- I

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: EST 56

Troubleshooting basic electronic circuits and systems to component level. Circuits include: power supplies, amplifiers, audio circuits, home theater audio (Dolby 5.1), and video circuits (analog TV). Course Schedule

EST 64 Electronic Troubleshooting - II

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Advisory: EST 62

Troubleshooting advanced electronic video circuits and systems to component level. Includes HDTV (plasma, LCD, LED). Course Schedule

Emergency Medical Service (EMS)

EMS 1 Paramedic Fundamentals and Selection

4 Units (Degree Applicable)

Lecture: 72

Prerequisite: Completed Paramedic Program application, current California EMT I (Basic) certificate, and 1200 hours employment as an EMT I, Eligibility for ENGL 68, Eligibility for READ 90, and Eligibility for MATH 51

Assessment and review of required Emergency Medical Technician (EMT) competencies as part of the selection process for the Emergency Medical Technician Paramedic (EMT-P) program. Includes current practices, medical terminology, mathematical skills for drug calculations, and applied physiology and anatomy of human body systems. Course Schedule

EMS 2 Preparation for Paramedic Program

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 54 Prerequisite: Acceptance into the paramedic program AND EMS 1

Emergency Medical Technician (EMT)-Basic Skills development and practice for patient assessment and treatment decision-making in preparation for the paramedic program. Focuses on life support, trauma response, and immobilization techniques for healthcare providers. Includes the American Heart Association Healthcare Provider (AHA HCP) Basic Life Support (BLS) skills, Basic Trauma Life Support (BTLS) and the Los Angeles County Emergency Medical Services (EMS) standards and resuscitation policies. Ride-alongs with 911 call response teams are highly recommended. Course Schedule

EMS 10 Anatomy and Physiology for Paramedics

3 Units (Degree Applicable)

Lecture: 54

Prerequisite: Admission to Paramedic Program and EMS 1 and EMS 2 Corequisite: EMS 20, EMS 30, EMS 40, EMS 50, and EMS 60

Gross anatomy and physiology of the human body, with applications to paramedic practices. Course Schedule

EMS 20 Emergency Cardiac Care for Paramedics

1.5 Units (Degree Applicable) Lecture: 18 Lab: 30 Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60 (courses may have been taken previously)

Certifies students in Pediatric Advanced Life Support (PALS), and Advanced Cardiac Life Support (ACLS) according to the standards of the American Heart Association (AHA). Enhances advanced assessment and treatment skills according to national and Los Angeles County Treatment Guidelines.

Course Schedule

EMS 30 Pharmacology for Paramedics

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, EMS 60

Paramedic drugs with emphasis on dosages supplied and ordered, routes of administration, expected therapeutic outcomes and possible adverse reactions. Course Schedule

EMS 40 Cardiology for Paramedics

3 Units (Degree Applicable) Lecture: 54 Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10 and EMS 20 and EMS 30 and EMS 50 and EMS 60

Familiarizes the paramedic with the normal, abnormal, and diseased heart, assessments, assessment tools, interpretation of dysrhythmias, and paramedic interventions. Course Schedule

EMS 50 Paramedic Skills Competency

5 Units (Degree Applicable) Lecture: 54 Lab: 108 Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, EMS 60

Paramedic skills required for field operation as a paramedic and for licensing in competency-based exams. Course Schedule

EMS 60 EMS Theory for Paramedics

8.5 Units (Degree Applicable) Lecture: 153 Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 50

Paramedic theories, principles, and practices including assessment skills, care of the sick and injured at a paramedic level, with applications to anatomy and physiology, pathologic processes, and mechanisms of injury.

Course Schedule

EMS 70 Paramedic Clinical Internship

3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 162

Prerequisite: EMS 10 and EMS 20 and EMS 30 and EMS 40 and EMS 50 and EMS 60 <</p> Clinical experience and application of paramedic theory and practice with an emphasis on patient assessment and utilization of paramedic skills in a hospital setting.

EMS 80 Paramedic Field Externship

9 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 486 Prerequisite: EMS 70 and successful completion of Los Angeles County accreditation exam

Application of concepts of paramedic theory and practices, with emphasis on patient assessment and utilization of paramedic skills in a field setting on an operational paramedic unit. Course Schedule

Emergency Medical Technician (EMT)

EMT 90 Emergency Medical Technician

7 Units (Degree Applicable) Lecture: 90 Lab: 108 Prerequisite: EMT 90-A High school graduation or equivalent and minimum of 18 years of age

Approved by the Los Angeles (LA) County Emergency Medical Services (EMS) Agency. Develops the ability to recognize the signs and symptoms of various illnesses and injuries. Teaches proper procedures of prehospital emergency care per local and national standards. Awards an Emergency Medical Technician (EMT) Course Completion Certificate needed to take National Registry Certifying Exam. Necessary for many jobs in emergency care and is a prerequisite for entry into a paramedic program and most fire department jobs. Course Schedule

EMT 90-A Introduction to EMS System

1.5 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 27 Prerequisite: High school graduation or equivalent

Prerequisite for EMT 90. Introduces concepts of the Emergency Medical Services (EMS) System, roles and responsibilities. Basic concepts of patient assessment and scene management taught. Stresses collaboration with other scene team members. Course Schedule

EMT 91 Emergency Medical Technician I Refresher

1.5 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 16 Lab: 16 Prerequisite: Completion of an approved California State EMT course and

possession of a currently valid EMT certificate or one which has expired for no more than 20 months

Renews EMT certification. Approved by the L.A. County and State Departments of Health. Fulfills updates for Emergency Medical Technician personnel every two years in order to maintain eligibility for employment in an emergency response agency and to keep certification valid. Course covers all required material and current changes/updates in pre-hospital emergency care at the EMT level. Special approval required to enroll.

Course Schedule

EMT 95 EMT for Fire Technology

8 Units (Degree Applicable) Lecture: 100 Lab: 100 Prerequisite: Must be at least 18 years old Advisory: FIRE 1 and FIRE 13

Designed for pre-Fire Academy students, this course is approved by the L.A. County and State EMS Agencies and prepares students to take the National Registry of EMTs certifying exam. Develops knowledge and skills needed for recognition of illnesses and injuries and emphasizes proper pre-hospital emergency care per local and national protocols. Course Schedule

Engineering (ENGR)

ENGR 1 Introduction to Engineering 2 Units (Degree Applicable, CSU, UC) Lecture: 18 Lab: 54

Engineering professions including academic requirements, licensure, articulation agreements with four-year institutions, transfer, engineering study as a preparation for other careers, and academic and employment strategies. Engineering design, creativity, and problem solving processes including working as a team member on an engineering design project. Field trips are required. Course Schedule

ENGR 1C Engineering Critical Thinking

3 Units (Not Degree Applicable, CSU, UC) Lecture: 36 Lab: 54 Prerequisite: ENGL 1A or ENGL 1AH

A critical thinking course for science and engineering students. Analyze, criticize, and reason inductively and deductively and reach well-supported factual or judgmental conclusions. Main topics include: identifying topics for investigation, developing planning strategies, locating pertinent information, critically analyzing sources of information, testing hypotheses, synthesizing and organizing results for effective written and verbal communication. Students will complete a hands-on experience with a client-centered engineering design project to develop critical thinking skills.

Course Schedule

ENGR 6 Introduction to Engineering Programming Concepts and Methodologies

4 Units (Degree Applicable, CSU, UC, C-ID #: ENGR 120) Lecture: 54 Lab: 54 Prerequisite: Math 160

Fundamental concepts of procedure-oriented programming, associated abstraction mechanisms and design processes, interface of software with the physical world, use of sensors, and application of numerical techniques.

ENGR 7 Programming Applications for Engineers

4 Units (Degree Applicable, CSU, UC, C-ID #: ENGR 220) Lecture: 54 Lab: 54 Prerequisite: Math 180

Engineering computation using MATLAB and Simulink. Topics include matrix computation, statistical analysis, graphics, and numerical methods. Common examples and applications of physics and engineering are used throughout the course. Course Schedule

ENGR 8 Properties of Materials

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: (CHEM 40 or CHEM 50) and (PHYS 4A or PHYS 2AG)

Mechanical, electrical, magnetic, optical and thermal properties of engineering materials and their relation to the materials' internal structure. Atomic structure and bonding, crystalline structures, phase and phase diagrams, metals; polymers, ceramics, composites, mechanical deformation and fracture, structural control and influence of properties, materials naming and designating systems, corrosion process, lasers, semiconductors and electronic packaging materials. Course Schedule

ENGR 18 Introduction to Engineering Graphics

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Fundamental engineering graphics and problem solving techniques. Skills in freehand and instrument drawing are developed and applied to the solution of problems. Orthographic, isometric and oblique drawings. Course Schedule

ENGR 24 Engineering Graphics

4 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 108 Prerequisite: MATH 150 and (ENGR 18 or eligibility for ENGR 24) Advisory: CISB 15

2D and 3D Computer-aided design (CAD) for engineering students. The principles of engineering drawing and sketching for mechanical design, the use of computer graphics and solid modeling in design representation of 3D objects, assembly and simulation as well as ASME standards on geometric dimensioning and tolerances. Course Schedule

ENGR 40 Statics

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGR 130) Lecture: 54 Prerequisite: PHYS 4A and MATH 181

Vector approach to static equilibrium of rigid bodies, forces, couples in two-and three-dimensional space. Application of equilibrium principles to trusses, frames and machines. Calculation of center of mass and centroid. Friction, moment of inertia, distributed and concentrated loads. Forces in cables and beams. Fluid statics. Introduction to virtual work. Course Schedule

ENGR 41 Dynamics

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGR 230) Lecture: 54 Prerequisite: ENGR 40

Vector approach to classical mechanics including absolute and relative motion of particles and rigid bodies in translational and rotational motion. Instantaneous center of rotation. Application of Newton's Second Law, work-energy and impulse-momentum methods, and introduction to mechanical vibrations. Course Schedule

ENGR 42 Mechanics of Materials

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: ENGR 40

Mechanics of deformable bodies subjected to axial, torsional, shearing, and bending loads. Includes combined stresses, statically indeterminate structures, deflection and stress analysis of beams, stability of columns, strain energy methods, and design of pressure vessels and structures. Course Schedule

ENGR 44 Electrical Engineering

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: PHYS 4B

Electrical circuit analysis including applications of Kirchoff's Laws and Thevenin's Theorems to DC and AC circuits. Fundamental principles including steady state and transient circuit response; complex impedance and admittance, Fourier and Laplace transforms and three-phase circuits. Application of fundamental circuit principles to operational amplifier and transistor circuits. Course Schedule

ENGR 50A Robotics Team Project Development

2 Units (Degree Applicable, CSU) (May be taken four times for credit) Lab: 108 Prerequisite: Instructor approval required for robotics competition team members

This course is for members of the Robotics Team. Introduces the knowledge, skills and activities needed to organize, promote and manage the design phase of a robotics competition team. Includes a survey of problem analysis, programming, mechanical design, and project management. Intended for students with an interest in robotics who need to gain experience as members of an engineering design team. Instructor approval required. Off-campus competition required. Course Schedule

ENGR 99 Special Projects in Engineering

1-2 Units (Not Degree Applicable) Lab: 54-108 Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (May have been taken previously)

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer special projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will meet with the instructor and make individual contracts of a more advanced nature to ensure that proficiencies are enhanced.

Course Schedule

Engineering Construction Technology (ECT)

ECT 16 CADD and Digital Design Media Level I

4 Units (Degree Applicable) Lecture: 54 Lab: 54

Computer Aided Design and Drafting (CADD) Level 1 and computer applications in building construction, engineering, and related fields, including spreadsheet and presentation applications. Field trips required. Course Schedule

ECT 17 Legal Aspects of Construction

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Advisory: INSP 70 or ECT 70 taken prior or concurrently

Formerly INSP 17

Legal aspects of the construction industry involving the owner, contractor, builder or developer, and design professional. Includes codes, licensing, contracts, bonds, and lien laws. May include off-campus assignments.

Course Schedule

ECT 26 Civil Engineering Technology and CADD

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71

Formerly EDT 26

Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CADD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CADD drawings produced for a final portfolio. Course Schedule

ECT 67 Reading Construction Drawings

3 Units (Degree Applicable, CSU) Lecture: 54

Formerly INSP 67

Reading construction drawings as they apply to architecture, construction, interior design, and related fields. Off-campus assignments may be required. Course Schedule

ECT 70 Elements of Construction Management

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Formerly INSP 70

Construction processes, terminology, and procedures. Topics include construction careers, building systems, sustainability, quality control, management, and scheduling of resources (materials, equipment, time, personnel, and finance). Course Schedule

ECT 71 Construction Estimating

3 Units (Degree Applicable, CSU) Lecture: 54

Formerly INSP 71

Construction estimating and bidding procedures using contract documents, construction drawings, and cost data. Estimating methods and use of estimating forms or software, including detailed quantity takeoffs of building materials and labor required in building construction. Course Schedule

ECT 87 Fundamentals of Construction Inspection

3 Units (Degree Applicable, CSU) Lecture: 54

Formerly INSP 87

Construction inspection of light frame wood construction and steel structures. Topics include vertical and horizontal loads, stress analysis, framing and structural standards of lumber and steel, metallurgy, and welding.

Course Schedule

Engineering Design Technology (EDT)

EDT 89 Engineering Design Technology Work Experience

1-2 Units (Degree Applicable) (May be taken for Pass/No Pass only)

Lab: 75-150

Prerequisite: Application approved by department faculty and compliance with Work Experience regulations as designated in the College Catalog

Provides on-the-job experience at an approved work site which is related to classroom instruction in Engineering Design Technology. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. If this is a volunteer program on or off campus, a minimum number hours per month will be required as part of the 60 hour total.

English: Composition (ENGL)

ENGL 1A Freshman Composition

4 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 100) Lecture: 72 Prerequisite: ENGL 68 or satisfactory score on the English

Prerequisite: ENGL 68 or satisfactory score on the English Placement Test

Develops effective expository writing skills and investigates the principles and methods of composition as applied to the research process and the writing of essays. Emphasizes critical reading of academic material. Course Schedule

ENGL 1AH Freshman Composition - Honors

4 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 100) Lecture: 72 Prerequisite: Acceptance into the Honors Program

Develops effective expository writing skills and investigates the principles and methods of composition as applied to the research process and the writing of essays. Emphasizes critical reading of academic material. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1A and ENGL 1AH. Course Schedule

ENGL 1B English - Introduction to Literary Types

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 120) Lecture: 54 Prerequisite: ENGL 1A or ENGL 1AH

Critical, oral, and written evaluation, analysis, and interpretation of short and long fiction, poetry, and drama. Develops a foundation for personal, cultural, and intellectual growth. Course Schedule

ENGL 1BH English - Introduction to Literary Types - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 120) Lecture: 54

Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program

Critical, oral, and written evaluation, analysis and interpretation of short and long fiction, poetry, and drama. Develops a foundation for personal, cultural, and intellectual growth. An honors course designed to provide an enriched experience. May not receive credit for both ENGL 1B and ENGL 1BH.

Course Schedule

ENGL 1C Critical Thinking and Writing

4 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 105) Lecture: 72 Prerequisite: ENGL 1A or ENGL 1AH

Develops critical thinking, reading, and writing skills beyond the level achieved in ENGL 1A. Increases the student's capacity for logical analysis and argumentative writing. Course Schedule

ENGL 1CH Critical Thinking and Writing - Honors

4 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 105) Lecture: 72

Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program

The nature of arguments, the basic principles of logic, and the rhetorical strategies necessary to write effective argumentative essays. Emphasizes the appraisal of information, close analysis of a variety of texts, and the essential principles involved in the practice of reasoned decision-making. An honors course designed to provide an enriched experience. May not receive credit for both ENGL 1C and ENGL 1CH. Course Schedule

ENGL 8A Creative Writing - Fiction

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ENGL 1A or ENGL 1AH

Elements, processes, and techniques of fiction writing. Includes genre, setting, point of view, character development, plot development, description, and dialogue with an emphasis on student development as a writer of fiction through practice and discussion. Course Schedule

ENGL 8B Creative Writing - Poetry

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ENGL 1A or ENGL 1AH

Emphasizes the student's development as a poet. Course Schedule

ENGL 8E Creative Writing - Memoir

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ENGL 1A

Analysis and writing of memoirs including stylistic and syntactic forms and composition strategies used when writing memoir. Course Schedule

ENGL 8F Creative Writing - Nonfiction

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ENGL 1A

Analysis and writing of creative nonfiction including stylistic and syntactic forms and composition strategies used when writing creative nonfiction. Course Schedule

ENGL 64 Writing Effective Sentences

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Prerequisite: Eligibility for ENGL 67

Improve sentence writing skills through the analysis and application of sentence elements. Includes the identification and correction of common sentence problems, such as comma splice, fragment, and run-on. Course Schedule

ENGL 65 Grammar Review

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Fundamentals of English for the student who needs a practical course focusing on usage and grammar: subjects, verbs, agreement, case, fragments, modifiers, parallelism, shifts in construction, and punctuation. Course Schedule

ENGL 66 Paragraph Writing

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Analysis and writing of paragraphs. Through the process of writing, the student learns to state and support an idea about a focused topic. Course Schedule

ENGL 67 Writing Fundamentals

4 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: Satisfactory score on the English Placement Test or completion of AMLA 42W or completion of LERN 81

Emphasizes sentence, outlining, summary, paragraph and essay skills, and critical thinking through combining reading and writing. Course Schedule

ENGL 68 Preparation for College Writing

4 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72

Prerequisite: ENGL 67 or AMLA 43W or satisfactory score on the English Placement Test

Development of the academic essay based on critical reading of texts. Reviews paragraph structure and introduces principles of documentation. Continues to develop critical thinking through reading of and writing about increasingly complex texts. Course Schedule

ENGL 75 Vocabulary Building

3 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Expands students' reading, writing and speaking vocabularies through study of the principles of word formation, emphasizing prefixes, roots, suffixes, and the effective use of content clues as well as dictionaries and other reference works. Course Schedule

ENGL 81 Language Acquisition

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: ENGL 1A

Language structure, linguistics, and language development. Explores first and second-language acquisition as it pertains to K-12 learners. Meets the Commission on Teaching Credentialing standards for Language Acquisition requirement for elementary school teaching credential. Course Schedule

ENGL 90 Accelerated Developmental Writing

5 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 90 Prerequisite: Eligibility for ENGL 67 Advisory: Eligibility for READ 90 or eligibility for AMLA 33

Critical thinking skills, contextual analysis, and conventions of essay writing in a thematic context to prepare students for college-level composition. Addresses metacognitive skills and affective factors with a process-based, integrative approach to writing. Course Schedule

ENGL 99 Special Projects in English

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Prerequisite: ENGL 1A

Offers selected students recognition for their academic interest and ability, and the opportunity to explore the discipline in greater depth. The content of this course and the methods of study vary and depend on the particular project under consideration. Instructor authorization needed prior to enrollment. Course Schedule

English: Literature (LIT)

LIT 1 Early American Literature

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 130) Lecture: 54 Prerequisite: ENGL 1A

American literature of the Seventeenth, Eighteenth, and Nineteenth Centuries. Emphasizes writers who created an American literary identity and shaped America's cultural mythology. Course Schedule

LIT 2 Modern American Literature

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 135) Lecture: 54 Prerequisite: ENGL 1A

Emphasizes characteristic late 19th, 20th, and 21st century concerns as they relate to American literary form and content. Course Schedule

LIT 3 Multicultural American Literature

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Analyzes the representative contributions of diverse groups to American literature and culture. Covering a wide spectrum of historical periods and literary genres, the course will focus on issues of ethnic identity, assimilation, acculturation, cultural pluralism, and family and gender roles in order to heighten awareness of diversity in America. Representative literature may include that of or by Black Americans, Latino/a Americans, Native Americans, Asian Americans, LGBTQ Americans, and people with differing abilities and religions. Course Schedule

LIT 6A Survey of English Literature

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 160) Lecture: 54 Prerequisite: ENGL 1A

A chronological study of major works from Beowulf and the Anglo-Saxon period to the mid-18th century. Course Schedule

LIT 6B Survey of English Literature

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 165) Lecture: 54 Prerequisite: ENGL 1A

Major works from the late 18th century on to the Romantic Era through the Victorian and Modern periods to contemporary texts. Course Schedule

LIT 10 Survey of Shakespeare

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Shakespeare's histories, tragedies, comedies, and selected sonnets with their historical and literary contexts, emphasizing their relevance to contemporary culture and values. Course Schedule

LIT 11A World Literature to 1650

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 140) Lecture: 54 Prerequisite: ENGL 1A

Survey of selected works derived from antiquity to 1650 from Europe, the Near and Mid East, Egypt, Asia, Greece, and Rome. The course explores the relationships between world literatures, art, society, politics, and philosophy. Course Schedule

LIT 11B World Literature from 1650

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGL 145) Lecture: 54 Prerequisite: ENGL 1A

LIT 11B conducts a comparative survey of selected works of literature, in English translation, originating since 1650 to the 21st century, from Europe, Asia, Africa, the Middle East, and South America. The course explores relationships between world literatures, art, culture, politics and philosophy. Course Schedule

LIT 14 Introduction to Modern Poetry

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Examines the significant poetry of England and America in the 20th and 21st centuries, with the major emphasis on contemporary poems. Course Schedule

LIT 15 Introduction to Cinema

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Explores the broad range of human experience inherent in the study of film as art. Using a number of films drawn from various genres, examines film from historical, social, technological and aesthetic perspectives. Course Schedule

LIT 20 African American Literature

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Surveys Eighteenth through Twenty-first Century writings of African Americans. Emphasizes the oral traditions, the development of protest literature, the interpretation of literary genres and thematic elements of the literary canon. Course Schedule

LIT 25 Contemporary Mexican American Literature

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Contemporary Mexican-American literature, drama, and film. Includes discussion of the roles played by gender, religion, language, education, family, ethnic identity, and class. Also addresses application of literary tools such as symbolism, language, and theme. Course Schedule

LIT 36 Introduction to Mythology

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Major myths, including creation, fertility, and hero myths. Theories and approaches to these archetypal stories and the ways that they reflect and shape culture. Emphasis is on Classical myths, but myths from around the world will be included. Course Schedule

LIT 40 Children's Literature

3 Units (Degree Applicable, CSU, C-ID #: ENGL 180) Lecture: 54 Prerequisite: ENGL 1A

Children's fiction and non-fiction books from around the world. Emphasis is given to analysis and interpretation of thematic and literary elements, suitability for age group, quality of writing and illustration, award-winning books, and issues related to cultural patterns, bias and persuasiveness. Course Schedule

LIT 46 The Bible As Literature: Old Testament

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Considers the Bible as a collection of literary texts and applies the principles of literary analysis to the Old Testament in their historical and cultural contexts. Course Schedule

LIT 47 The Bible As Literature: New Testament

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A

Considers the Bible as a collection of literary texts and applies the principles of literary analysis to selected books of the New Testament in their historical and cultural contexts. Course Schedule

Family & Consumer Sciences (FCS)

FCS 41 Life Management 3 Units (Degree Applicable, CSU) Lecture: 54

Life skills for effective self-management now and in the future. Examines theories of life management including Maslow's Hierarchy of Needs and how it can be applied to daily use of one's resources including energy, abilities, priorities, and money. Major topics include steps in value clarification, goal setting, resource allocation, decision-making, priority management, money management, workplace management, communication skills, and healthy habits. In addition, the course explores the effect of cultural forces and future trends. Course Schedule

FCS 51 Consumerism: The Movement, its Impact, and Issues 3 Units (Degree Applicable, CSU)

Lecture: 54

Analysis of the role of consumption in economic systems. The consumer movement past, present and future viewed as a response to economic and social conditions. Contemporary consumer issues, information sources, legislation, and protection. Course Schedule

FCS 80 Personal Financial Planning

3 Units (Degree Applicable, CSU) Lecture: 54

Integrative approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. Students will examine their relationships with money, set personal goals, and develop a plan to meet those goals. Topics include consumerism, debt, healthcare, investing, retirement, long-term care, disability, death, and taxes. Students may not earn credit for both BUSA 71 and FCS 80. Course Schedule

FCS 91 Work Experience in Family and Consumer Sciences

1-3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-225 Prerequisite: Compliance with work experience regulations as designated in the College Catalog

Provides Family and Consumer Science majors with actual on-thejob experience in an approved work site related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Instructor approval required.

Course Schedule

Fashion Merchandising & Design (FASH)

FASH 8 Introduction to Fashion 3 Units (Degree Applicable, CSU) Lecture: 54

Fashion industry as a whole, including raw materials, manufacturing, retailing, technology, world economics, globalization, and careers. Includes apparel design, manufacturing, retail merchandising, sales, promotion, textile production, and career opportunities. Course Schedule

FASH 9 History of Costume and Fashion

3 Units (Degree Applicable, CSU) Lecture: 54

Survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on styledevelopment as it relates to social, economic and political forces, and the relationship of historic styles to current fashion. Course Schedule

FASH 10 Clothing Construction I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Essentials of industry standard apparel construction techniques using a variety of machines and equipment. Students will be given instruction in single needle machine operation, industrial overlock operation, and garment assembly. Course Schedule

FASH 12 Clothing Construction II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: FASH 10

Advanced industry construction techniques using overlock and single needle machines. **Course Schedule**

FASH 14 Dress, Culture, and Identity

3 Units (Degree Applicable, CSU) Lecture: 54

The interrelatedness of socio-psychological, economic, cultural, and political/religious influences on dress, adornment, and fashion in historical perspective. Includes cross-cultural analysis of Western and non-Western dress. **Course Schedule**

FASH 15 Aesthetic Design in Fashion

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: FASH 25

Design principles and influences in apparel selection and fashion design. Projects applying design elements and principles using computer-aided design (CAD) software. Course Schedule

FASH 17 Textiles

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Manufacturing of textiles and fabrics and the factors that determine the suitability for end use. Topics include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation, and care. Emphasis is on selection criteria for textile product design and recent developments in the textile field. **Course Schedule**

FASH 21 Patternmaking I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: FASH 10

Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, patterns will be created, constructed and fitted. **Course Schedule**

FASH 22 Fashion Design By Draping

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: FASH 10 Advisory: FASH 21

Three dimensional dress design through draping fabrics directly to a dress form to create original designs and patterns to interpret fashion illustrations and technical flats. **Course Schedule**

FASH 23 Patternmaking II

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: FASH 21 and FASH 25

Intermediate pattern drafting and flat patternmaking, with an introduction to the grading of patterns and technical packages. Development of patternmaking skills to include drafting flat patterns from measurements and creating advanced sleeves and collars. Students apply patternmaking theories to create ready-to-wear sportswear designs for misses and women's wear. **Course Schedule**

FASH 24 Fashion Patternmaking by Computer

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: FASH 21

Industrial fashion patternmaking and grading using Gerber computeraided design (CAD) technology. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing and grading of patterns. Course Schedule

FASH 25 Fashion Computer-Assisted Drawing

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Advisory: FASH 10

Technical fashion drawing techniques using Adobe Illustrator and Photoshop. Includes drawing production flats, colorization and scanning images using computer as a drafting tool. Exploration of popular computer techniques and methods suitable for use in apparel industry. **Course Schedule**

FASH 59 Fashion Retailing

3 Units (Degree Applicable, CSU) Lecture: 54

Overview of fashion retailing, on site environments, online fashion stores, management and multi-channel retailers. Principles focus on the fashion segment of the retailing industry and the merchandising of fashion products.

Course Schedule

FASH 62 Retail Buying and Merchandising

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: MATH 51

Principles and practices used in the retail buying and merchandising environment. This course emphasizes the buyer's role in merchandising management, pricing strategies, promotion, retail formulas, and costing calculations.

Course Schedule

FASH 63 Fashion Promotion

3 Units (Degree Applicable, CSU) Lecture: 54

Principles and techniques of advertising and promoting apparel wholesale and retail products. Emphasis placed on promotional mix, trend and forecast research, branding, special events, integrated marketing, promotional media, and communication strategy. Course Schedule

FASH 66 Visual Merchandising Display

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: FASH 25 or ARTC 140

Design principles, color theory, space and lighting in relation to visual merchandising display areas and interior design of stores using various applications of computer graphics programs. Course Schedule

FASH 81 Work Experience in Fashion Merchandising and Retail

1-3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-225 Prerequisite: FASH 8

Provides fashion merchandising students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester in apparel merchandising, buying and/ or retail business required for each one unit of credit.Students are responsible for securing their own internships and must be ready for the first week of class. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

Course Schedule

Fire Technology (FIRE)

FIRE 1 Fire Protection Organization 3 Units (Degree Applicable, CSU) Lecture: 54

Careers in fire protection and related fields, history of fire protection, fire loss analysis, and public, quasi-public, and private fire protection services. Also includes specific fire protection functions and fire behavior, suppression, and extinguishment. Course Schedule

FIRE 2 Fire Prevention Technology

3 Units (Degree Applicable, CSU) Lecture: 54

History of fire prevention, including codes, identification (ID) and correction of hazards, investigation, and public safety education. Course Schedule

FIRE 3 Fire Protection Equipment and Systems 3 Units (Degree Applicable, CSU)

Lecture: 54 Advisory: FIRE 1

Portable fire extinguishing equipment, sprinkler and standpipe systems, protection systems for special hazards, fire alarm and detection systems, maintenance, design and operation of sprinkler systems, water supply, pump, tanks, and connections. Course Schedule

FIRE 4 Building Construction for Fire Protection

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1

Building construction and fire code safety effects on pre-planning, engineering, inspections, fire ground operations, fire and building codes relationships. Course Schedule

FIRE 5 Fire Behavior and Combustion

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1

Theory of how and why fires start, spread and are controlled; in depth study of fire chemistry and physics, characteristics of materials, extinguishing of materials, extinguishing agents and fire control techniques. Course Schedule

course schedule

FIRE 6 Hazardous Materials/ICS 3 Units (Degree Applicable, CSU)

Lecture: 54 Advisory: FIRE 1

Hazardous chemicals, their physical properties, use in industry, characteristics when involved in spills, fire, and accidents. Information regarding emergency procedures, legal requirements, compliance to regulations, health effects and treatment, and protocols that meet Occupational Safety and Health Administration (OSHA) requirements. Course Schedule

FIRE 7 Fire Fighting Tactics and Strategy

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1 or equivalent taken prior

Principles of fire control through utilization of staff, equipment and extinguishing agents, fire command and control procedures, understanding types of building construction as they relate to fire control, review of fire chemistry, pre-fire planning, organized approach to decision making on the fire scene, and basic firefighting strategies and tactics. Course Schedule

FIRE 8 Fire Company Organization and Management

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1

Fire department company organization, management, leadership, company officer responsibilities, personnel issues, administration, communication, firefighter safety and wellness, firefighting capability, records, and reports. Course Schedule

FIRE 9 Fire Hydraulics

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1 or equivalent taken prior and eligibility for MATH 51

Mathematics, hydraulic laws, and formulas as applied to fire service. Application of formulas and mental calculation to hydraulic problems, water supply problems, and underwriter requirements for pumps. Course Schedule

FIRE 10 Arson and Fire Investigation

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1

Cause, origin, arson, incendiaries, related laws and types of incendiary fires. Methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses, adult and juvenile fire setters, court procedure and testimony. Course Schedule

FIRE 11 Fire Apparatus and Equipment

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: FIRE 1 or equivalent taken prior

Mechanized equipment operated by fire service personnel and regulations pertaining to their use. Includes driving laws, driving techniques, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, and apparatus maintenance. Course Schedule

FIRE 12 Wildland Fire Control

4.5 Units (Degree Applicable, CSU) Lecture: 65 Lab: 14 Advisory: Eligibility for ENGL 68

Addresses wildland fire behavior, safety considerations, strategy, tactics, and operational differences within the wildland urban interface. Field trip required. Course Schedule

FIRE 13 Principles of Fire and Emergency Services Safety and Survival 3 Units (Degree Applicable, CSU) Lecture: 54

Advisory: FIRE 1

Fire Technology principles. History of the National Firefighter Life Safety Initiative and need for cultural and behavioral change. This course meets the National Fire and Emergency Services Higher Education objectives as it pertains to firefighter safety and survival techniques used in today's fire service.

Course Schedule

FIRE 86 Basic Fire Academy

14.5 Units (Degree Applicable) Lecture: 135 Lab: 383 Prerequisite: FIRE 1 through 5 and FIRE 13 or equivalent, KIN 50, approved EMT course completion, and either KINF 51 or KINF 52 (or equivalent). Corequisite: KINF 53

Standard fire department apparatus and equipment, salvage covers and fire extinguishment techniques in accordance with the State Board of Fire Services. Prepares students to meet manipulative skills standards established by the local fire agencies, associations and unions. Course Schedule

FIRE 91 Fire Academy Ladder Orientation

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 8 Lab: 32

Intensive training in ladder manipulation to prepare students for Fire Academy and physical fitness tests given by the fire departments. Course Schedule

FIRE 93 Firefighter 1 Skills Review and Testing

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 4 Lab: 36 Prerequisite: FIRE-86 Basic Fire Academy course completion

Review of skills learned in the basic fire academy in accordance with the State Fire Marshal Firefighter 1 curriculum. This course also provides the student the opportunity to take the National Capstone tests for International Fire Service Accreditation Congress (IFSAC) and National Board on Fire Services Professional Qualifications (Pro Board) certification. Successful completion of this course would provide the student with the opportunity to apply for employment outside the state of California with those states that offer reciprocity. Course Schedule

FIRE 96 Work Experience Fire Science

1-4 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Completion of a minimum of 12 units in Fire Science.

Work experience in fire service at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in fire service. Course Schedule

FIRE 100 Company Officer 2C: Fire Inspections and Investigations 1.5 Units (Degree Applicable)

Lecture: 33 Lab: 7

Company Officer's role in fire prevention and investigation, the relationship between life safety and building construction, the elements of a quality company inspection program, determination of origin and cause of fire scene and how to address complex hazards encountered during an inspection. Course Schedule

FIRE 101 Company Officer 2D All Risk Command Operations

1.5 Units (Degree Applicable)

Lecture: 20 Lab: 20

Prerequisite: Fire Academy Course Completion Certificate and -200 online certificate and Hazardous Material Incident Commander (CSTI) Certification

Principles of command for the Company Officer including the development of incident priorities, strategy, tactics, safety, and the risk management process. An overview of Company Officer pre- and postincident planning considerations, and crew roles and responsibilities. Each student will have the opportunity to gain experience through structure fire incident simulations and role play. Course Schedule

FIRE 102 Company Officer 2B General Administrative Functions 1 Unit (Degree Applicable)

Lecture: 15 Lab: 5

Company Officer 2B general administrative functions and the implementation of department policies and procedures. Addresses the fire department's role, image, and mission to the public. Course Schedule

FIRE 103 Company Officer 2E : Wildland Incident Operations

1.5 Units (Degree Applicable)Lecture: 24 Lab: 16Prerequisite: Fire Academy Course Completion Certificate and FIRE 101 and S-290 (classroom delivery only)

Principles of command in the wildland urban interface environment. Overview of the concepts of command safety and the risk management process, personnel qualifications, preincident planning considerations, command considerations at wildland incidents, fire behavior forecasting, firefighting limitations, key points from historic fires, the challenges of local conditions, and public expectations. Course Schedule

FIRE 104 Instructional Methodology

1.5 Units (Degree Applicable) Lecture: 24 Lab: 16

This course is part of the Company Officer Certification track for the California State Fire Marshal. Methods and techniques for training in accordance with the latest concepts in career education; selecting, adapting, organizing, and using instructional materials appropriate for teaching cognitive lessons; criteria and methods to evaluate teaching and learning efficiency; and an opportunity to apply major principles of learning through teaching demonstrations. Course Schedule

FIRE 107 Company Officer 2A: Human Resource Management for Company Officers 1.5 Units (Degree Applicable)

Lecture: 33 Lab: 7

Company Officer 2A Human Resource Management for Company Officers course prepares or enhances the ability of the first line supervisor to supervise subordinates through the use of human resource management skills to accomplish assignment, evaluate member performance, and integrate health and safety plans, policies, and procedures into daily activities as well as the emergency scene. Course Schedule

FIRE 108 ICS 300: Advance Incident Command

1 Unit (Degree Applicable) Lecture: 16 Lab: 8 Prerequisite: ICS 100 and ICS 200 online FEMA certificates

ICS 300 is part of the State Fire Marshal Officer Certification track and intended for persons serving as command staff, section chiefs, strike team leaders, task force leaders, unit leaders, division/group supervisors, branch directors, and multi-agency coordination system/emergency operations center staff. Topics include Incident Command System (ICS) staffing and organization, transfer of command, unified command functions in a multi-jurisdictional or multi-agency incident, ICS forms, resource management, interagency mission planning and procurement. Course Schedule

French (FRCH)

FRCH 1 Elementary French

4 Units (Degree Applicable, CSU, UC) Lecture: 72

Beginning course for students without prior exposure to French. Begins to develop the ability to converse, read and write in French. Emphasis is on oral proficiency. Includes the study of principles of language learning, pronunciation, basic vocabulary and grammatical structures. Extensive exposure to the cultures of French-speaking countries. Course Schedule

FRCH 2 Continuing Elementary French

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: FRCH 1 or equivalent

Further development of conversational, reading and writing skills in French, with emphasis on communicative skills, expansion of vocabulary and understanding of structure. Extensive exploration and analysis of the cultures of French-speaking countries. Course Schedule

FRCH 3 Intermediate French

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: FRCH 2 or equivalent

Expansion of vocabulary and structural components. Further development of communicative proficiency with increasing emphasis on reading and writing. Extensive exposure to culture from France and other French-speaking countries. Course Schedule

FRCH 4 Continuing Intermediate French

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: FRCH 3

Continued development of intermediate-level proficiency in French. Increasing emphasis on reading and writing. Extensive exposure to cultural elements such as art, music, film, and history from France and other French-speaking countries. Course Schedule

FRCH 53 Intermediate Conversational French

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: FRCH 2

Intermediate level fluency through expansion of vocabulary and practical use of language. Course Schedule

FRCH 54 Continuing Intermediate Conversational French

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: FRCH 3 or FRCH 53 or equivalent

Continuing to intermediate fluency through further expansion of vocabulary and practical use of language. Course Schedule

FRCH 60 French Culture Through Cinema

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

French culture and history as presented in classic and contemporary French films. Analysis of characters and political, social and artistic movements in France and other Francophone countries as reflected in the works of French-speaking film directors and writers. Lectures and class discussions conducted in English. All films with English subtitles. Course Schedule

Geography (GEOG)

GEOG 1 Physical Geography 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Study of the natural processes creating the Earth's physical environments with emphasis on the inter-relationships of natural processes and systems; general atmospheric circulation, Earth-sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape. Course Schedule

GEOG 1H Physical Geography - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Study of the natural processes creating the Earth's physical environments with emphasis on the inter-relationships of natural processes and systems; general atmospheric circulation, Earth-sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 1 and GEOG 1H. Course Schedule

GEOG 1L Physical Geography Laboratory

1 Unit (Degree Applicable, CSU, UC, C-ID #: GEOG 111) Lab: 54 Corequisite: GEOG 1 or GEOG 1H (May have been taken previously) Advisory: MATH 50

Geographical observations, experiments, and demonstrations in a laboratory setting to explore natural earth processes and systems. Course Schedule

GEOG 1LH Physical Geography Laboratory - Honors

1 Unit (Degree Applicable, CSU, UC, C-ID #: GEOG 111) Lab: 54

Prerequisite: Acceptance into the Honors Program Corequisite: GEOG 1 or GEOG 1H (May have been taken previously) Advisory: MATH 50

Geographical observations, experiments, and demonstrations in a laboratory setting to explore natural earth processes and systems. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 1L and GEOG 1LH. **Course Schedule**

GEOG 2 Human Geography

3 Units (Degree Applicable, CSU, UC, C-ID #: GEOG 120) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Human geography with emphasis on critical areas of inquiry and research. Focus on the interconnections of place and process in several sites around the globe; comprehension of important terms and concepts; and literacy in the geography of place names and in world regional understanding. **Course Schedule**

GEOG 2H Human Geography - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: GEOG 120) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Human geography with emphasis on critical areas of inquiry and research. Focus on the interconnections of place and process in several sites around the globe; comprehension of important terms and concepts; and literacy in the geography of place names and in world regional understanding. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 2 and GEOG 2H.

Course Schedule

GEOG 5 World Regional Geography

3 Units (Degree Applicable, CSU, UC, C-ID #: GEOG 120) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Developmental study of the world's regions, addressing the major regions of the world in terms of population, resources, economic development, physical environment, and geographic problems. Course Schedule

GEOG 8 The Urban World

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Geographical analysis of past and current patterns of world urbanization. Emphasis is on city origins, growth, development, and current problems. Off-campus assignments may be required. **Course Schedule**

GEOG 10 Introduction to Geographic Information Systems

3 Units (Degree Applicable, CSU, UC, C-ID #: GEOG 155) Lecture: 36 Lab: 54 Advisory: Eligibility for ENGL 68

Principles, theory and operations of geographic information systems (GIS), including geospatial data models, analytical functions, data quality, map design and visual communication, and social and environmental applications of GIS. **Course Schedule**

GEOG 30 Geography of California

3 Units (Degree Applicable, CSU, UC, C-ID #: GEOG 140) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Thematic approach to issues, processes, and topics relevant to the study of California. Includes an examination of the physical processes that shape the landscapes of California, the interaction of humans with these physical processes (particularly the importance of water), and the cultural and social landscapes that have evolved as a result of this human-environment interface. A field trip may be required. **Course Schedule**

GEOG 30H Geography of California - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: GEOG 140) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Thematic approach to issues, processes, and topics relevant to the study of California. Includes an examination of the physical processes that shape the landscapes of California, the interaction of humans with these physical processes (particularly the importance of water), and the cultural and social landscapes that have evolved as a result of this human-environment interface. A field trip may be required. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 30 and GEOG 30H. Course Schedule

Geology (GEOL)

GEOL 1 Physical Geology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: Eligibility for MATH 51

Minerals, rocks, earthquakes, volcanoes, and landscapes are presented within a framework of plate tectonics operating in concert with atmospheric and oceanic processes. A required course for students entering geoscience majors. May be taken by non-majors as a transferable physical science plus lab. Required field trips may involve overnight camping.

Course Schedule

GEOL 2 Historical Geology 4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: GEOL 1 or GEOL 8L

An Earth systems approach applied to tracing the tectonic, biologic, and climatic development of Earth, with focus on North America, through geologic time. Study of Earth history using geologic maps, cross-sections, minerals, rocks, and fossils and integrating basic geological field methods. Required field trips may involve overnight camping. Course Schedule

GEOL 7 Geology of California

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Natural provinces of California, namely their mineral, rock, and petroleum resources, volcanoes and earthquakes, landscapes, and geologic history as influenced by plate tectonic and surface processes. Field trips are required and may involve overnight camping. Course Schedule

GEOL 8 Earth Science

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. Course Schedule

GEOL 8H Earth Science - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

An honors course designed to provide an enriched experience. Fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college or university. Field trips are required. Students may not receive credit for both GEOL 8 and GEOL 8H. Course Schedule

GEOL 8L Earth Science Laboratory

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: GEOL 8 or GEOL 8H (May have been taken previously)

Laboratory applications and problem-solving in geology, oceanography, meteorology, and astronomy. Recommended for students needing a lab to transfer to a 4-year college/university. Course Schedule

GEOL 9 Environmental Geology 3 Units (Degree Applicable, CSU, UC) Lecture: 54

Advisory: ENGL 1A

Human interactions with the geological environment for non-science majors. Relevant aspects of the geological environment and the problems currently caused by humans as they use the earth and its resources. Geologic hazards, including earthquakes, volcanoes, landslides, floods, subsidence. Emphasis on geological viewpoints concerning waste disposal, pollution, geothermal energy, fossil fuels, and mining. Geologic practices related to sound land management, conservation of resources, and protection of the environment. Field trips required. Course Schedule

GEOL 10 Natural Disasters

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Surveys the hazards faced by humans from the natural environment. Analyzes a variety of hazards from a geological perspective. Studies the impact humans have on influencing or exacerbating natural disasters. Includes the role of government in responding to natural disasters. Field trips required.

Course Schedule

GEOL 24 Geologic Field Studies: Central California

4 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Lab: 54

Field studies of selected Central California geological provinces and surrounding areas. Overnight field trips with substantial hiking required. Course Schedule

GEOL 25 Geologic Field Studies: Southern California

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54

Field studies of selected Southern California geological provinces and surrounding areas. Overnight field trips required. Trips require significant hiking.

Course Schedule

GEOL 29 Special Topics in Field Geology

3 Units (Degree Applicable, CSU) Lecture: 18 Lab: 108 Advisory: GEOL 1 or GEOL 8

Field studies of designated geologic provinces and regions. Emphasis on rock identification and interpretation of geologic histories of field areas. Extended overnight field trips, camping, and strenuous hiking required. Course Schedule

GEOL 99 Special Projects in Geology

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Course Schedule

German (GERM)

GERM 1 Elementary German

4 Units (Degree Applicable, CSU, UC) Lecture: 72

For students with no previous German. Develops the ability to converse, read, and write in German. Emphasis on oral proficiency. Includes essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Germanic culture. Course Schedule

GERM 2 Continuing Elementary German

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: GERM 1

Further development of conversational reading and writing skills in German with emphasis on communication skills, expansion of vocabulary, and understanding of structure. Further study of Germanic culture.

Course Schedule

GERM 3 Intermediate German

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: GERM 2

Communicative proficiency in German and exploration of Germanic culture. Further study and review of grammar and expansion of vocabulary. Increasing emphasis on reading and writing in German. Course Schedule

History (HIST)

HIST 1 History of the United States

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of the United States from Native American and colonial times to the present. Designed for transfer students who need a one-semester course in United States history to meet general education requirements. History and social science majors should take History 7 and 8. Satisfies the requirement for a course in American history, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code.

Course Schedule

HIST 3 World History: Prehistoric to Early Modern

3 Units (Degree Applicable, CSU, UC, C-ID #: HIST 150) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Human societies from their origins to the Early Modern period from a global and comparative perspective including social, political, religious, economic, and cultural institutions and changes. Course Schedule

HIST 3H World History: Prehistoric to Early Modern - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: HIST 150) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Human societies from their origins to the Early Modern period from a global and comparative perspective including social, political, religious, economic, and cultural institutions and changes. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 3 and HIST 3H. Course Schedule

HIST 4 World History: Early Modern to the Present

3 Units (Degree Applicable, CSU, UC, C-ID #: HIST 160) Lecture: 54

Prerequisite: Eligibility for ENGL 1A

Social, political, economic, and cultural changes during the modern period from a global and comparative perspective. Course Schedule

HIST 4H World History: Early Modern to the Present - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: HIST 160) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Social, political, economic, and cultural changes during the modern period from a global and comparative perspective. An honors course designed to provide an enriched experience. Includes extensive reading and writing assignments. Students may not receive credit for both HIST 4 and HIST 4H. Course Schedule

HIST 7 History of the United States to 1877

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Survey of American history from Native American origins through post-Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines political, philosophical, and intellectual influences on the founding fathers, American political institutions, and the citizens of the country. Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States as required by Title 5 of the California Administrative Code. Course Schedule

HIST 7H History of the United States to 1877 - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Survey of American history from Native American origins through post-Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines political, philosophical, and intellectual influences on the founding fathers, American political institutions, and the citizens of the country. Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 7 and HIST 7H. Course Schedule

HIST 8 History of the United States from 1865

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

United States history from 1865 to the present. Examines social, economic, political, intellectual, and military themes and patterns of United States development. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code. Course Schedule

HIST 8H History of the United States from 1865 - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

United States history from 1865 to the present. Examines social, economic, political, intellectual, and military themes and patterns of United States development. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 8 and HIST 8H. Course Schedule

HIST 10 History of Premodern Asia

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of East, South, and Southeast Asia from the prehistoric age to the early modern period. Emphasizes social, political, economic, and cultural changes in Asia from a regional and comparative perspective. Course Schedule

HIST 11 History of Modern Asia

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of East, South, and Southeast Asia from the early modern period to the present. Emphasizes social, political, economic, and cultural changes in Asia during the modern period from a regional and comparative perspective. Course Schedule

HIST 16 The Wild West - A History, 1800-1890

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of the 19th Century Trans-Mississippi West (also known as the Wild West or the 19th Century American West) including significant historical, economic, and political events and personalities which make up this time period. Course Schedule

HIST 19 History of Mexico

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Cultural and social history of the Mexican people from pre-Colombian civilization to modern Mexico. Course Schedule

HIST 30 History of the African American 1619-1877

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

The history of African Americans from 1619 to 1877, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code. Course Schedule

HIST 31 History of the African American

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of African Americans from the Reconstruction period to the present, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code.

Course Schedule

HIST 35 History of Africa 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of Africa from prehistoric times to the present with a focus on cultural, social, political, and economic changes. Topics include ancient African societies, European colonialism, and the reemergence of independent African states in recent decades. Course Schedule

HIST 36 Women in American History

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Women's experience placed within the context of major themes of United States history, addressing issues and debates related to gender construction and identity from Colonial times to the present. Political, economic, and social currents within the context of race, ethnicity, sexual orientation, and class are examined and analyzed. This course satisfies the requirement for a course in American history including the study of American institutions and ideals, as required by Title 5 of the California Administrative Code.

Course Schedule

HIST 39 California History

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

The social, intellectual, economic, and political development of California and the Pacific Coast from earliest times to the present. Course Schedule

HIST 40 History of the Mexican American

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

U.S. history from colonial times to the present with a special emphasis on the role of Mexican Americans in the development of the nation. Satisfies the requirement for a course in American History, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code. Course Schedule

HIST 44 History of Native Americans

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History of the United States from Colonial times to the present with a special emphasis on the role of Native Americans. Examines the role Euro-American social, political, and economic movements play in the Native American experience and the mutual relationships generated through these factors. Critically analyzes how the Native American narrative is woven into the fabric of U.S. history and is an essential component of the complete American story. Course Schedule

HIST 99 Special Projects in History

2 Units (Degree Applicable, CSU) Lecture: 36 Prerequisite: Eligibility for ENGL 1A

Offers selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to a greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Instructor authorization needed prior to enrollment. Course Schedule

Histotechnology (HT)

HT 1 Introduction to Histotechnology 1 Unit (Degree Applicable) Lecture: 18 Advisory: Eligibility for ENGL 1A

The role of histotechnicians in preparation and analysis of tissues samples for diagnostic and research purposes. Internet resources, support organizations and periodical references for histotechnicians, as well as regulatory agencies. Set up of an educational plan and portfolio to be used throughout the program. Course Schedule

HT 2 Scientific Basics for Histotechnicians

3 Units (Degree Applicable) Lecture: 54 Advisory: CHEM 10 and Eligibility for ENGL 1A

General laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples. Course Schedule

HT 10 Histology

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: ANAT 35

Microscopy, cell structure, cell reproduction, and staining. Identification of tissues, organs, and special microstructures, and their detailed morphology. Involves distinguishing normal features from pathological conditions.

Course Schedule

HT 12 Beginning Histotechniques

5 Units (Degree Applicable) Lecture: 54 Lab: 108 Prerequisite: HT 1 and HT 2 Advisory: MICR 22

Theory and practical applications and skill-building in tissue fixation, processing, embedding, sectioning, microtomy, hematoxylin-eosin staining (H&E), and microorganism staining. Quality control as it relates to routine histological techniques and equipment. Course Schedule

HT 14 Advanced Histotechniques

5 Units (Degree Applicable) Lecture: 54 Lab: 108 Prerequisite: HT 12

Practical applications of special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to frozen sections, cytology preparation, and microwave technology. Field trip required. Course Schedule

HT 16 Histochemistry and Immunohistochemistry

4 Units (Degree Applicable) Lecture: 54 Lab: 54 Prerequisite: HT 10 and HT 12

Practical applications of enzyme and immunological reactions as they relate to tissue staining. Field trip required. Course Schedule

HT 17 Work Experience in Histotechnology

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: HT 12 and compliance with Work Experience regulations as designated in the College Catalog

Provides histotechnology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. Placement by Program Director. Course Schedule

Hospitality & Restaurant Management (HRM)

HRM 51 Introduction to Hospitality

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Hospitality industry segments and types of operations with an emphasis on career opportunities. Includes an overview of: tourism, lodging, restaurants, managed services, gaming, recreation, event management, leadership, and marketing. Course Schedule

HRM 52 Food Safety and Sanitation

1.5 Units (Degree Applicable, CSU) Lecture: 27 Prerequisite: Eligibility for ENGL 68

Principles of food safety and sanitation in the food service industry. Emphasis on the role of management in creating and implementing a culture of applied food safety practices within the work place. Students will take a nationally recognized Food Safety Manager Certification exam as part of this course. Course Schedule

HRM 53 Dining Room Service Management

3 Units (Degree Applicable, CSU) Lecture: 54

Skills and knowledge needed for all aspects of dining room service. Exploration of the various styles of service. Table setting styles, buffet set-ups, wine and beverage service, and service as a sales tools are covered. Safety of both customer and staff are discussed. Field trip required.

Course Schedule

HRM 54 Basic Cooking Techniques

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: HRM 52

Professional cooking, tasting, and evaluating techniques for commercial operations. Emphasis on identification and use of proper equipment and ingredients in the production of: stocks, sauces, soups, salads, dressing, meats, poultry, fish, vegetables, starch, and dessert. Uniform and student knife set required. Students must be ServSafe Manager Certified. Course Schedule

HRM 56 Hospitality Supervision

3 Units (Degree Applicable, CSU) Lecture: 54

Human resource management procedures and skills needed to hire, train, and manage employees in the hospitality industry. Role, responsibilities, and legal issues related to supervision. Application of management techniques including: effective communication, recruitment, selection, training, coaching, team building, performance evaluation, discipline, and conflict management. Course Schedule

HRM 57 Hospitality Cost Control

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: HRM 51 (May have been taken previously)

Analyzing and managing: food, beverage, labor, and other costs within a hospitality operation. Emphasis on problem solving, applying cost control techniques to maximize profits while managing expenses. Topics include: establishing standards, cost-volume-profit analysis, forecasting, purchasing and storage controls, menu costing and pricing, theft prevention and labor control. Course Schedule

HRM 61 Menu Planning

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: HRM 51

Menu development, design, and analysis. Emphasis on demographics and market research, facility assessment, costing, pricing, menu analysis, menu design and layout. Includes a practical concept-to-creation capstone project. Course Schedule

HRM 62 Event Planning and Catering

3 Units (Degree Applicable, CSU) Lecture: 54

Event planning and catering with an emphasis on organizing and catering both on-site and off-site events. Includes: event types, revenuecost analysis, menu pricing, staff coordination, organizing logistical components, client negotiation and contracts, contracting vendors, conflict resolutions, and marketing. Course Schedule

HRM 64 Hospitality Financial Accounting

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: BUSA 11 or Eligibility for MATH 50

Financial accounting specific to hospitality businesses. Emphasis on: bookkeeping, financial statements development and analysis, and tailoring the Uniform System of Accounting to hotels, restaurants, clubs and other food service operations. Course Schedule

HRM 66 Hospitality Law

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: HRM 51

Business law topics as they relate to the hospitality industry. Principles of negligence, civil rights, contracts, liability, rights of guests and innkeepers, and labor law are covered. Field trip required. Course Schedule

HRM 70 Introduction to Lodging

3 Units (Degree Applicable, CSU) Lecture: 54

Operations in the lodging industry including: hotel organization, front office operations, reservations, registration, guest services, security, front office accounting, housekeeping, night audit, sale and marketing, planning and evaluating, revenue management, and human resources. Independent field trips required for this course. Course Schedule

HRM 81 Garde Manger

3 Units (Degree Applicable) Lecture: 36 Lab: 54

Preparation and presentation of cold kitchen foods including: sauces, soups, salads, sandwiches, appetizers, hors d'oeuvres, and buffets. Course Schedule

HRM 82 Baking and Pastry 3 Units (Degree Applicable) Lecture: 36 Lab: 54

Preparation of baked goods and pastries including: breads, cakes, icing, laminated pastries, cookies, pies, tarts, and plated desserts. Course Schedule

HRM 83 International Cuisines

3 Units (Degree Applicable) Lecture: 36 Lab: 54

Preparation of international cuisines from Asia, Europe, the Mediterranean, and Latin America. Emphasis will be placed on regional dishes from: China, Japan, India, Thailand, Spain, Italy, France, Greece, Lebanon, and Mexico. Course Schedule

HRM 91 Hospitality Work Experience

1-4 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Provides students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by faculty. Course Schedule

Humanities (HUMA)

HUMA 1 The Humanities 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Interdisciplinary study of the artistic, musical, literary and philosophical accomplishments and achievements of women and men in western society from the ancient Middle East to the present. Emphasizes creating an awareness of human expression as it occurs in a historical and philosophical context. Off-campus assignments may be required. Course Schedule

Industrial Design Engineering (IDE)

IDE 110 Design Foundation-Visual Literacy 3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Corequisite: IDE 120 and IDE 130

Develops visual literacy to communicate industrial design concepts, analyze visual structures of images and objects, and decipher manufacturing techniques used for existing products. A portfolio-based course that explores sketching techniques for industrial design based on formal design concepts and principles and promote an understanding of design used for functional and aesthetic problem solving used in industrial design. Course Schedule

IDE 120 Introduction to CAD

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Corequisite: IDE 110 and IDE 130

Computer Aided Design (CAD) applications and design processes used in industrial design and manufacturing. A portfolio-based course that requires students to generate industry standard CAD drawings used for manufacturing. Course Schedule

IDE 130 Shop Processes

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Corequisite: IDE 110 and IDE 120

Methods and tools used for creating production prototypes, breadboards, and mock-ups used for fabrication and manufacturing industries. Focus is on tool and process selection, safety, and mastery of machine operation skills and techniques. Course Schedule

IDE 150 Design Foundations

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: IDE 110 and IDE 120 and IDE 130 Corequisite: IDE 160 and IDE 170

Digital graphic media for industrial design used to convey complex design and manufacturing criteria. Focuses on design solutions for conceptual and structural problems with an emphasis on drawing techniques, rapid visualization, color theory, and Computer Assisted Design (CAD) techniques required for effective visual communication. Course Schedule

IDE 160 Intermediate CAD

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: IDE 110 and IDE 120 and IDE 130 Corequisite: IDE 150 and IDE 170

Applications, methods, theories, and industrial design processes used in engineering and industrial design fields. A portfolio-based course that develops skills in sketching, communicating, constructing mock ups and displays, prototyping, and 2D and 3D Computer Assisted Design (CAD) parametric solid modeling. Course Schedule

IDE 170 Introduction to Prototyping

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: IDE 110 and IDE 120 and IDE 130 Corequisite: IDE 150 and IDE 160

Processes and materials typically employed when creating breadboards, proof of concept models, form studies and production-intent prototypes. Provides hands-on experience with fabrication techniques including related tools and machinery. Emphasis is placed how the design process is influenced by material and manufacturing limitations. Course Schedule

IDE 210 Advanced Media

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: IDE 150 and IDE 160 and IDE 170 Corequisite: IDE 220 and IDE 230

Digital media used for designing, redesigning, and inventing industrial products. Develops illustration and conceptualization skills using media and technology such as digital project photography, 2D scanners, sketch tablets, and presentation and illustration software. Emphasis is placed on refining and completing a comprehensive portfolio. Course Schedule

IDE 220 Advanced CAD

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: IDE 150 and IDE 160 and IDE 170 Corequisite: IDE 210 and IDE 230

Complex surface modeling in hybrid surface and solid environments using rapid modeling methods. Integrates manufacturing technologies, materials, and machine design with an emphasis on translating concepts from visualization manufacturing projects generated using computer aided manufacturing (CAM) and rapid prototyping technologies. Course Schedule

IDE 230 Introduction to Mechanical Principles

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: IDE 150 and IDE 160 and IDE 170 Corequisite: IDE 210 and IDE 220

Mechanical devices, concepts and principles common to manufactured products and manufacturing processes. Analysis, discussion, and problem solving related to mechanical design scenarios and supported by computer aided design (CAD). Exploration of inherent strengths and weaknesses of specific devices and various design approaches. Emphasis on the way mechanical principles affect design strategies. Course Schedule

IDE 250 Product Design and Viability

6 Units (Degree Applicable, CSU) Lecture: 54 Lab: 162 Prerequisite: IDE 210 and IDE 220 and IDE 230 Corequisite: IDE 270

Product life cycle from design through manufacturing and distribution. Portfolio-based course that includes fabrication of a viable product and incorporates every stage of project management including research, graphic presentation, parts sourcing, material choices and fabrication of prototype.

Course Schedule

IDE 270 Manufacturing Processes and Materials

3 Units (Degree Applicable, CSU) Lecture: 9 Lab: 135 Prerequisite: IDE 210 and IDE 220 and IDE 230 Corequisite: IDE 250

Relationships between common manufacturing processes and associated materials including advantages, limitations, and their impact on the design process. Reverse engineering and computer aided design (CAD) model construction assists with understanding common design approaches and real-world manufacturing problems and solutions. Course Schedule

Interior Design (ID)

ID 10 Introduction to Interior Design 2 Units (Degree Applicable, CSU) Lecture: 36

Interior design and the planning of total interior environments that meet individual, functional and environmental needs. Field trips may be required. Course Schedule

ID 10L Introduction to Interior Design Laboratory

1 Unit (Degree Applicable, CSU) Lab: 54 Corequisite: ID 10 (May have been taken previously)

Application of the interior design practice and the planning of total interior environments that meet individual, functional and environmental needs. Field trips may be required. Course Schedule

ID 12 Materials and Products for Interior Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Advisory: ID 10

Analysis, application, and evaluation of products and materials used in interior design. Field trips required. Course Schedule

ID 14 History of Furniture and Decorative Arts

3 Units (Degree Applicable, CSU) Lecture: 54

Historic development of structure, interior spaces, furniture and decorative arts throughout the world. Interior architecture is illustrated in this overview of design heritage from antiquity to present. Emphasis is placed on style development as it relates to social, economic and political influences as well as the use of materials and technology. Field trips may be required.

Course Schedule

ID 20 Color and Design Theory I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Elements and principles of design and the creative process of identifying and solving interior design problems. Formal visual properties of line, shape, form, pattern, texture, and color are studied in their relationship to the organizational systems and unifying principles that create balanced designs. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 21 Color and Design Theory II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Advisory: ID 20

Systematic process of designing three-dimensional objects including color theory, surface, and volume investigation for interior design. Elements include visualization, perception, presentation, expression, and site analysis of physical, contextual, and cultural aspects of design and the urban environment. Portfolio pieces will be produced. Field trips may be required.

Course Schedule

ID 22 Design Drawing for Interior Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Communication elements required to convey design ideas to building trades via the written language of design and construction documents. Graphic and drawing techniques, including interior design graphics standards, building construction fundamentals, methods of drawings, and the basics of compiling construction documentation sets. Field trips may be required.

Course Schedule

ID 23 Computer Aided Drawing for Interior Design I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Advisory: ID 22 or ARCH 141 or ARCH 11

Computer Aided Drawing (CAD) as a communication element required to convey interior design ideas to building trades. Includes graphic and drawing techniques, interior design graphics, building construction fundamentals, methods of drawings, and construction documentation sets. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 25 Space Planning for Interior Design I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: ID 22 or ID 23 or ARCH 141 or ARCH 11

Federal and state codes and specifications concerning life-safety issues, barrier free access and universal design requirements relative to residential and contract interior design. Attention is given to performance, health safety, and universal design for specifying interior materials and products. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 26 Space Planning for Interior Design II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: ID 22 or ID 23 or ARCH 141 or ARCH 11 Advisory: ID 25

Space planning with an emphasis on programming, behavioral aspects of space, use of furniture standards and applicable codes. Planning skills are gained through the application of basic principles to actual spaces. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 27 Rapid Visualization

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Prerequisite: ID 22 or ID 23 or ARCH 141 or ARCH 11

Methods, techniques, and tools used in illustrating interior spaces with an emphasis on rapid production. Includes techniques of drawing and rendering volume, tone, texture, perspective, and composition using sketching, rapid visualization, and formal composition of one-and twopoint perspectives. Portfolio pieces will be produced. Field trips may be required.

Course Schedule

ID 29 Interior Design Studio I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: ID 26 Advisory: ID 12, ID 21, ID 27

Analysis and application of design concepts to interior environments. Focuses on the creative process of identifying, evaluating and solving design problems while incorporating universal and sustainable design in a studio environment. Includes research and analysis of end-user needs, space requirements, existing architectural elements, and site conditions. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 31 Building Systems for Interior Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: ID 22 or ID 23 or ARCH 141 or ARCH 11

Residential and commercial construction systems and materials. Includes typical building systems used in construction that affect interior design and elements that make up the foundation, floors, walls, and roof. Field trips may be required. Course Schedule

ID 32 Lighting Design and Theory for Interior Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: ID 22 or ID 23 or ARCH 141 or ARCH 11 Advisory: ID 26

Principles and theory of interior lighting design, lighting technology, terminology, development of lighting design concepts and selection and placement of luminaries to achieve the desired result. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 34 Computer Aided Drawing for Interior Design II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Advisory: ID 22 or ARCH 141 or ARCH 11

Three-dimensional computer modeling, rendering, lighting, and flythroughs as used in interior design. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 36 Portfolio Development for Interior Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Individual professional identities through self-branding as a marketing strategy. Emphasis is on personal, educational, and professional qualifications required for entry into interior design and related professions. Surveys the interior design profession, industry, and related occupations. Portfolio pieces will be produced. Field trips may be required.

Course Schedule

ID 37 Business Practices for Interior Design 3 Units (Degree Applicable)

Lecture: 54

Principles, procedures, and systems necessary for interior design professionals to start a business. Emphasis will be placed on contracts, legal issues, budgets, revenue generation, purchasing, billing, compensation and collection, interactions with clients, designers, installers, and suppliers. Field trips may be required. Course Schedule

ID 38 Internship in Interior Design

1-3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-225 Prerequisite: Compliance with Work Experience/Internship regulations as designated in the College Catalog

Designed to provide the student with actual on-the-job experience in the interior design profession, which relates to classroom based learning. Placement is not guaranteed but assistance is provided by the interior design faculty. A minimum 75 paid clock hours or 60 non-paid clock hours per unit is required. Course Schedule

ID 39 Interior Design Studio II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: ID 26 Advisory: ID 29

Analysis and application of design concepts to interior environments. Focuses on the creative process of identifying and solving design problems incorporating universal and sustainable design. Includes research and analysis of client requirements for complex programs and their solutions in order to satisfy end-user needs, functional space requirements, public image, existing architectural elements, and site conditions. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 40 Kitchen and Bath Studio I

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: ID 22 or ARCH 11 or ARCH 141 Advisory: ID 32 and ID 31 and ID 25

Kitchen and bath design that focuses on ergonomic principles and specific materials including floor and wall surfaces, window treatments, cabinet selection, appliance and fixture selection, counter top selection, and lighting. Projects will consist of dimensioned floor plans, elevations, isometric drawings, perspective drawings, and section drawings completed in accordance with National Kitchen and Bath Association (NKBA) standards and nomenclature. Portfolio pieces will be produced. Field trips may be required. Course Schedule

ID 41 Kitchen and Bath Studio II

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: ID 40 Advisory: ID 32

Kitchen and bath design that focuses on universal design, design concepts, and historical design for kitchen and bath projects. Emphasis is placed on ergonomics and Americans with Disabilities Act (ADA) considerations. Projects will utilize graphic standards as recommended by the National Kitchen and Bath Association (NKBA). Field trips may be required.

Course Schedule

ID 48 Internship in Kitchen and Bath

1-3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-225 Prerequisite: Compliance with Work Experience/Internship regulations as designated in the College Catalog Corequisite: ID 40 (May have been taken previously)

On-the-job experience in the interior design profession at a National Kitchen and Bath Association (NKBA) member work site, which relates to students' classroom based learning. Placement is not guaranteed but assistance is provided by the interior design faculty. A minimum 75 paid clock hours or 60 non-paid clock hours per unit is required. Course Schedule

ID 50 Interior Design Specialized Topics 1 Unit (Degree Applicable)

Lecture: 18

Exploratory design topics to enhance interior design. The content of each course and the methods of study vary each semester and depend on the particular topic under consideration. Students will explore interior design concepts and presentation techniques. Field trips may be required. Course Schedule

ID 99 Special Projects in Interior Design 1-3 Units (Degree Applicable) Lab: 54-162 Prerequisite: ID 10

Extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Portfolio pieces will be produced. Offers students recognition for their academic interests in interior design and the opportunity to explore the discipline of interior design to greater depth. Students will be able to pursue more advanced and complex laboratory projects and experiments. Portfolio pieces will be produced. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration. Instructor authorization is needed prior to enrollment Course Schedule

Italian (ITAL)

ITAL 1 Elementary Italian

4 Units (Degree Applicable, CSU, UC) Lecture: 72

Intended for students without previous exposure to Italian. Begins to develop the ability to converse, read, and write in Italian. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Italian culture. Course Schedule

ITAL 2 Continuing Elementary Italian

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: ITAL 1

Further development of conversational, reading and writing skills in Italian with special emphasis on verbs, grammar and extension of vocabulary. Includes study of Italian culture. Course Schedule

ITAL 3 Intermediate Italian

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: ITAL 2

Development of intermediate Italian language skills and their use as tools in exploring Italian civilization. Further study and review of grammar, exercises in word building, derivation and the extension of the active and recognition vocabularies. Extensive exposure to Italian culture, such as film, music, and history. Course Schedule

ITAL 4 Continuing Intermediate Italian

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: ITAL 3

Further practice in speaking and writing of intermediate Italian. Collateral reading in Italian. Extensive exposure to cultural elements from Italy such as art, music, film and history. Course Schedule

ITAL 52 Conversational Italian

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ITAL 1

Development of elementary Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. Course Schedule

ITAL 53 Continuing Conversational Italian

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ITAL 2 or ITAL 52

Development of intermediate Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. Course Schedule

ITAL 54 Advanced Conversational Italian

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: ITAL 3 or ITAL 53

Development of advanced Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. Course Schedule

ITAL 60 Italian Culture Through Cinema

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Italian culture through cinema from 1900 - present through analysis of the aesthetic, literary, artistic and philosophical movements in Italy as reflected in the works of the Italian film makers and writers. Lecture and class discussion to be conducted in English; film presentation with English subtitles.

Course Schedule

Japanese (JAPN)

JAPN 1 Elementary Japanese 4 Units (Degree Applicable, CSU, UC) Lecture: 72

Elementary course for students without prior exposure to Japanese. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures and an introduction to Japanese culture. Course Schedule

JAPN 2 Continuing Elementary Japanese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: JAPN 1

Further development of elementary skills in Japanese including conversational, reading, and writing skills with special emphasis on verbs, grammar, and extension of vocabulary. Includes a discussion of Japanese culture.

Course Schedule

JAPN 3 Intermediate Japanese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: JAPN 2

Continued development of writing ability emphasizing development of thought through Kanji, Hiragana and Katakana. Additional development of cultural application of Japanese. Course Schedule

JAPN 4 Continuing Intermediate Japanese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: JAPN 3

Continuing intermediate study and review of grammar and vocabulary. Readings and discussions of Japanese cultural topics and introduction to Japanese literature. Course Schedule

JAPN 5 Advanced Japanese

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: JAPN 4 or equivalent

Japanese communication skills with emphasis on conversational skills for daily and social settings in Japanese culture. Advanced study of grammar, vocabulary, Kanji characters, listening, speaking, reading, and writing. Extensive exposure to cultural elements from Japan such as art, music, film, and history. Course Schedule

JAPN 53 Conversational Japanese

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: JAPN 2 or equivalent

Development of intermediate Japanese conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Japanese culture. Grammar is presented in context. Course Schedule

Journalism (JOUR)

JOUR 100 Introduction to Mass Media

3 Units (Degree Applicable, CSU, UC, C-ID #: JOUR 100) Lecture: 54 Prerequisite: ENGL 1A

Mass media and interrelationships with society, including history, structure, and trends. Additionally, the following topics will be covered as they pertain to the mass media: economics, law, ethics, technology, and such social issues as gender and cultural diversity. Course Schedule

JOUR 101 Beginning Newswriting

3 Units (Degree Applicable, CSU, UC, C-ID #: JOUR 110) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Gathering, organizing and writing news in journalistic style across multiple platforms. Writing and reporting based on original interviews and research. Covering meetings, speeches and events, writing under deadline, and the use of Associated Press (AP) Style. Role of the journalist and related legal and ethical issues. Course Schedule

JOUR 102 Intermediate Newswriting

3 Units (Degree Applicable, CSU, UC, C-ID #: JOUR 210) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: JOUR 101

Newsgathering, organizing and writing news and features in journalistic style across multiple platforms. Public affairs, local and regional government, police, courts, arts and entertainment, and sports beats writing and reporting on and off campus. Course Schedule

JOUR 103 Magazine Staff Production Lab

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass)

Advisory: JOUR 110

Practical experience in a lab setting writing and producing the print and online editions of the college student magazine. Writing and editing articles; creating multimedia to accompany stories and images for print, web and broadcast. Course Schedule

JOUR 104 Student Media Photography Laboratory

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass)

Practical lab experience in the creation, preparation, and publishing of photos for the student newspaper, magazine, and online media. Provides learning through the use of digital cameras, Photoshop image editing, emerging technology, and scanners. Students may choose to use their own digital cameras, but digital cameras are available in the newsroom for checkout. Course Schedule

JOUR 105 Editor Training

1 Unit (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lab: 54 Advisory: JOUR 101

Leadership skills in a journalistic setting using the student media as a practical laboratory. Designed for students selected to serve as editors or managers of the student media. Course Schedule

JOUR 106 Online Media Laboratory

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass)

Practical experience in a newsroom lab setting in a variety of online publishing activities to produce and enhance the online student media. Use of computers, software and emerging technologies including audio, video, live broadcast, and wireless computer technology, as well as social media applications. Course Schedule

JOUR 107 Race, Culture, Sex, and Mass Media Images

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Role of mass media and advertising in the integration of minorities, cultures, women, and lesbians, gays-bisexuals, and transgenders LGBT) into American society. Examines how the mass media impacts public attitudes.

Course Schedule

JOUR 108 Introduction to Public Relations

3 Units (Degree Applicable, CSU, C-ID #: JOUR 150) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: JOUR 101

Theory, principles and professional practice of public relations. Concepts of planning and executing effective communication strategies including writing news releases and press pieces, and writing for and distribution through traditional, online and social media outlets, for any organization. Course Schedule

JOUR 109 Public Relations Internship

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lab: 225 Advisory: JOUR 108 or JOUR 8

Field work in public relations. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

JOUR 110 Magazine Writing and Production

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Advisory: JOUR 101

Writing and production of a student-run magazine. Artistic design, harmony, creativity and layout are stressed. Writing and editing magazine features, designing pages, selecting photographs and illustrations, preparing them for production; working under deadlines and other aspects of the magazine business are included. Course Schedule

JOUR 111 Writing Broadcast and Web News

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

News gathering and writing for radio, television and the Web. Newscast planning, story organization, and functions of a broadcast and multimedia newsroom are explored. Lecture and discussion of issues facing broadcast journalists in a new media environment will include ethics, law, and emerging technologies along with shooting video, recording audio, and editing video and audio. Opportunities to contribute to the campus student media. Course Schedule

JOUR 112 Work Experience in Journalism

3-4 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 225-300 Prerequisite: (JOUR 101 or JOUR 1A) and ENGL 1A. Compliance with Work Experience regulations as designated in the College Catalog.

This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

JOUR 114 Student News Media Staff

3 Units (Degree Applicable, CSU, C-ID #: JOUR 130) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 108

Newsroom lab setting writing and producing the college student news publications. Researching, writing and editing articles for both publications; photography, videography, and multimedia to create stories and images for print, web and broadcast; layout, design and graphic illustrations. Basic fundamentals of journalism law and ethics. Course Schedule

JOUR 115 Student News Media Editing Staff

3 Units (Degree Applicable, CSU, C-ID #: JOUR 131) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 108 Prerequisite: JOUR 114

Management and leadership involvement in writing and producing the college student print publications. Researching, writing and editing articles for both publications; photography, videography, multimedia, and emerging new technologies to create stories and images for print, web and broadcast; art direction, layout, design and graphic illustrations. Journalism law, copyright and ethics. Course Schedule

JOUR 116 Multimedia Storytelling

3 Units (Degree Applicable, CSU, C-ID #: JOUR 120) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Prerequisite: Eligibility for ENGL 1A

Multimedia storytelling with a journalism emphasis. Techniques explored include the use of video, photos, audio and text to convey interactive news and feature stories for online publishing. Cultivates skills in interviewing, sourcing and information, gathering content using photographic, audio and video recording equipment. Course Schedule

Kinesiology: Adaptive (KINL)

KINL 2 Physical Fitness for the Physically Limited 0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

A modified physical fitness conditioning program incorporating cardiovascular training exercises, specifically designed for students with a disability or limitation. Students who repeat this course will improve their fitness level through further instruction and practice. Course Schedule

KINL 18 Weight Training for the Physically Limited

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed to assist students with a disability or limitation develop strength, endurance, flexibility, and physical fitness through weight training.

Course Schedule

Kinesiology: Aquatics (KINA)

KINA 8A Swimming - Beginning 0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability. Course Schedule

KINA 8B Swimming - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed to improve competence in swimming ability for individuals who have had instruction in all of the basic strokes and can swim 25 yards in deep water. Students should be able to demonstrate proper mechanics for Front Crawl and Backstroke. Course Schedule

KINA 8C Swimming - Advanced

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Prerequisite: Demonstrate proficiency equivalent to Red Cross Level IV Swimming Test.

Designed to offer aquatic techniques of an advanced level and to refine the skill of the competent swimmer. Course Schedule

KINA 14 Water Polo

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINA 20 Aquatic Fitness

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Student must be able to perform front crawl 50 yards. Designed to improve and maintain aquatic fitness. Emphasis on building strength, endurance and cardiovascular fitness. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

Kinesiology: Athletics (KINX)

KINX 6 Baseball - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Baseball Team candidates to provide instruction in the components of training and conditioning related to the sport of baseball. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 8 Basketball - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 9 Conditioning for Sports

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Conditioning course for athletes to develop muscular strength and endurance, flexibility, core training skills, and cardiorespiratory fitness. Course Schedule

KINX 10 Basketball - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 11 Cross Country - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Cross Country Team candidates to provide instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 12 Cross Country - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Cross Country Team candidates to provide instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 16 Football - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Football Team candidates to provide instruction in the components of training and conditioning related to the sport of football. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 18 Golf - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Golf Team candidates to provide instruction in the components and training related to the sport of golf. Classes will be held on and off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs. Course Schedule

KINX 19 Golf - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Golf Team candidates to provide instruction in the components and training related to the sport of golf. Classes will be held on and off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs. Course Schedule

KINX 24 Soccer - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Soccer Team candidates to provide instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 25 Soccer - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Soccer Team candidates to provides instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 26 Softball - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Softball Team candidates to provide instruction in the components of training and conditioning related to the sport of softball. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 28 Swimming - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for the Men's Intercollegiate Swim Team candidates to provide instruction in the components of training and conditioning related to the sport of swimming. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 30 Swimming - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Swim Team candidates and to provide instruction in the components of training and conditioning related to the sport of swimming. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 32 Tennis - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 34 Tennis - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 38 Track and Field - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Track and Field team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 42 Track and Field - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Track and Field Team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 46 Volleyball - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Volleyball Team candidates in the components of training and conditioning related to the sport of volleyball. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 48 Water Polo - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Water Polo Team candidates to provide instruction in the components of training and conditioning related to the sport of water polo. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 49 Water Polo - Women

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Women's Intercollegiate Water Polo Team candidates to provide instruction in the components of training and conditioning related to the sport of water polo. Students who repeat course will improve skills through further instruction and practice. Course Schedule

KINX 50 Wrestling - Men

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Intended for Men's Intercollegiate Wrestling Team candidates to provide instruction in the components and conditioning related to the sport of wrestling. Students who repeat this course will improve through further instruction and practice. Course Schedule

KINX 70 Pep Squad

0.5-3.5 Units (Degree Applicable) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Provides training and experience for members of the pep squad who are directly supportive of Mt. SAC activities. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINX 88 Pre-Season Athletics

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-180

Pre-season intercollegiate athletics. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic conditioning, drill technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice. Course Schedule

KINX 99 Off-Season Athletics

0.5-3.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Designed for athletic team candidates in an off-season program. Includes sport-specific training with the purpose of developing areas of individual weaknesses. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

Kinesiology: Fitness (KINF)

KINF 4 Cardiovascular Conditioning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed to improve fitness levels through cardiovascular activities. Course Schedule

KINF 9 Conditioning for Sports

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

A conditioning course for students and athletes to develop muscular strength and endurance, flexibility, core training skills, and cardiorespiratory fitness. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

KINF 10A Weight Training - Beginning

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Muscular conditioning program using machines and free weights for students with little or no prior experience. Students will develop a personal fitness program to align with personal fitness goals. Course Schedule

KINF 10B Weight Training - Intermediate

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Advisory: KINF 10A or weight training experience

Muscular conditioning using machine and free weights for students with prior experience. Students will develop a personal program identifying baseline and improvements across the course. Course Schedule

KINF 19 Strength Training

2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed for students concentrating on strength development through various types of exercise. Course Schedule

KINF 25 Core Performance and Foundation Movement

1-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Body core training and foundation movement for students interested in improving their fitness level. Training and strengthening of the muscles that stabilize, align, and move the trunk. Course Schedule

KINF 34A Cardiorespiratory Training Beginning

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Beginning individualized cardiovascular exercise for students needing to start fitness training at a fundamental or low level of intensity. Utilizes stationary bikes, treadmills, elliptical trainers, step climbers and/or rowing machines as training modalities. This course will not challenge students with above average fitness abilities. Course Schedule

KINF 34B Cardiorespiratory Training Intermediate

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Individualized cardiovascular exercise for students able to participate in aerobic activity at a moderate to high fitness level of intensity. Utilizes stationary bikes, treadmills, elliptical trainers, step climbers and/or rowing machines as training modalities. Course Schedule

KINF 36A Circuit Training Beginning

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-108

Beginning Circuit Training for individuals with little or no weight training experience. Course is for students needing to begin at a fundamental or low level intensity of strength training. Utilizes circuit training machines, floor core work, and light dumbbells. This course will not challenge students with above average fitness abilities. Course Schedule

KINF 36B Circuit Training Intermediate

0.5-2 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-108

Individualized circuit training for students with previous strength training experience and capable of performing moderate to high levels of strength development on circuit training equipment. Students need to be familiar with strength and repetition ratios. Utilizes circuit training machines, floor core work, medicine balls, exercise balls, Bosu Balance Trainer and dumbbells.

Course Schedule

KINF 38A Aerobics-Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Beginning group exercise to improve cardiovascular fitness using aerobic activity. This course is designed for students with little or no previous group fitness experience and have a need to start at a fundamental level of exercise and lower exercise intensity levels. This course will not challenge students with average to above average fitness abilities. Course Schedule

KINF 38B Aerobics

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 36-54

Group aerobic exercise for students with experience in group fitness and able to exercise at moderate levels of fitness and mid to high target heart rate training zones. Class includes various types of high and low impact aerobic exercises including choreographed movements to music within a group fitness setting. Endurance strength training includes the use of elastic bands, light hand held weights, core exercises and weighted bars. Course Schedule

KINF 51A Agility Test Preparation Law and Fire - Beginning

1 Unit (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lab: 71

Physical agility skills for individuals with little or no agility training. Designed specifically for those interested in law enforcement and fire technology. There may be off-campus assignments. Course Schedule

KINF 51B Agility Test Preparation Law and Fire - Intermediate

1 Unit (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 71

Designed to enhance competence in physical agility testing for individuals who have had instruction in primary agility training. There may be off-campus assignments. Course Schedule

KINF 52A Fitness and Conditioning for Law and Fire - Beginning 1 Unit (Degree Applicable, CSU)

(May be taken for option of letter grade or Pass/No Pass) Lab: 71

Components of fitness used to perform agility tasks in the fields of law enforcement and fire technology. Course Schedule

KINF 52B Fitness and Conditioning for Law and Fire - Intermediate

1 Unit (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass)

Advisory: KINF 52A

Principles of exercise used to enhance fitness performance in the fields of law enforcement and fire technology. Course Schedule

KINF 53 Physical Training for the Basic Fire Academy

2.5 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass)

Prepares the Basic Fire Academy student for the physical demands of the fire service. Through a supervised individualized training program, the student acquires cardiovascular endurance, flexibility and strength. Course Schedule

Kinesiology: Individual (KINI)

KINI 4A Badminton - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Beginning badminton fundamentals and techniques, including singles and doubles play. Course Schedule

KINI 4B Badminton - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Intermediate badminton techniques, including singles and doubles play. Course Schedule

KINI 4C Badminton - Advanced

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Advanced badminton techniques, including singles and doubles tournament play. Course Schedule

KINI 18A Golf - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Golf fundamentals with an emphasis on technique, strategy, and rules. Course Schedule

KINI 18B Golf - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Instruction to individuals who have had previous golf experience and have played a regulation eighteen-hole course. Classes will be held at sites both on and off the Mt. SAC campus. Golf clubs and off site classes required.

Course Schedule

KINI 18C Golf - Advanced

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Instruction and practice for the proficient golfer (Sub 15 Handicap). Emphasis on golf swing analysis. Golf classes will be held at sites both on and off the MT.SAC campus. Clubs and off-campus classes required. Course Schedule

KINI 25 Mixed Martial Arts

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

The sport of mixed martial arts. An integration of striking and closecombat martial arts. Course Schedule

KINI 27A Jeet Kune Do - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Fundamentals and principles of Bruce Lee's martial art. Emphasis on footwork, distance, and technique for combat efficiency in self-defense. Course Schedule

KINI 27B Jeet Kune Do - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Intermediate principles of Bruce Lee's martial art. Intermediate level footwork, distance, and technique (punching, kicking, and grappling) for combat efficiency. Course Schedule

KINI 29 Self Defense and Martial Arts

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Basic concepts of self-defense and martial arts. Covers technique in three ranges of combat: grappling, kick/punch, and weapons range. Course Schedule

KINI 30A Filipino Martial Arts - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

The Filipino martial arts of Esgrima and Arnis. Basic weapons training for defense in armed and unarmed scenarios. Course Schedule

KINI 30B Filipino Martial Arts - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

The Filipino martial arts of Esgrima and Arnis. Intermediate weapons training for defense in armed and unarmed scenarios. Course Schedule

KINI 31A Jiujitsu - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Fundamentals of Brazilian Jiujitsu. Basic positions, breakfalls, training techniques, strategy, finishing holds, competition, history, and philosophy. Students are required to provide their own Judo/Jiujitsu gi uniform. Course Schedule

KINI 31B Jiujitsu - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Intermediate Brazilian Jiujitsu. Transitioning from positions, countering submissions and finishing holds, application of strategy, competition, and philosophy. Students are required to provide their own Judo/Jiujitsu gi uniform. Course Schedule

KINI 33A Kickboxing Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Presents the martial sport of kickboxing including the basic techniques for offense and defense, cardiovascular endurance, strategy and training modes. Designed for students with little or no experience. Course Schedule

KINI 33B Kickboxing Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

Prerequisite: KINI 33A

Refines the martial sport of kickboxing. Includes intermediate techniques for offense and defense, cardiovascular endurance, strategy and training modes.

Course Schedule

KINI 34 Women's Self Defense

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Techniques for personal protection and safety with emphasis on defensive tactics for women. Course Schedule

KINI 37A Tai Chi Chuan - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Fundamentals of Tai Chi Chuan as a martial art exercise for health and fitness, meditation, relaxation, and self-defense. Basic therapeutic exercises in the Tai Chi Chuan format will be presented. Course Schedule

KINI 37B Tai Chi Chuan - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Intermediate tai chi chuan fundamentals and principles including instruction in a traditional long form. Course Schedule

KINI 37C Tai Chi Chuan - Advanced

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Instruction and practice for the experienced Tai Chi Chuan practitioner. Emphasis will be on the sword form. Course Schedule

KINI 40A Tennis - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Beginning tennis fundamentals and techniques. Course Schedule

KINI 40B Tennis - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Intermediate tennis techniques and strategies for the individual who has previous experience and instruction in tennis. Course Schedule

KINI 40C Tennis - Advanced

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Advanced tennis techniques and strategies for the experienced player. Course Schedule

KINI 50A Yoga

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Yoga instruction with emphasis on yoga postures, breathing techniques, relaxation strategies and philosophy. Course Schedule

Kinesiology: Team Sport (KINS)

KINS 2A Basketball Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed to teach skills, fundamentals, rules and strategies for team play in basketball for those with little or no experience. Course Schedule

KINS 2B Basketball Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed to teach enhancement skills, fundamentals, rules and strategies for team play in basketball for students with previousexperience. Course Schedule

KINS 10A Beginning Soccer

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Fundamental technical skills and tactics to students with little or no soccer ability. Course Schedule

KINS 10B Soccer Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Advisory: KINS 10A

Designed to improve competence in technical and tactical skills for students who have had instruction in soccer. Students will be able to apply learned skills to small and full sided games. Course Schedule

KINS 16 Softball

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Basic skills, rules and strategies for team play in the sport of slow-pitch softball. Course Schedule

KINS 24A Volleyball - Beginning

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Techniques and strategies of volleyball including passing, setting, hitting, and serving. Course Schedule

KINS 24B Volleyball - Intermediate

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed for individuals with previous experience in techniques and strategies of volleyball. Course Schedule

KINS 24C Volleyball - Advanced

0.5-1 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass)

Designed for individuals with previous experience in advanced techniques and strategies of volleyball. Course Schedule

Kinesiology: Theory (KIN)

KIN 3 First Aid and CPR 3 Units (Degree Applicable, CSU, UC, C-ID #: KIN 101) Lecture: 54 Advisory: Eligibility for ENGL 68

Training in caring for victims of injuries, sudden illness and other medical emergencies; includes Community CPR. Students who successfully pass all requirements, will earn the appropriate American Red Cross First Aid Certificate and/or CPR Certificate. Course Schedule

KIN 5 Advanced First Aid/CPR/Emergency Response

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68

First responder training, training and certifications, including laboratory experience for developing the First Aid (FA)and CPR skills required by public safety personnel, athletic trainers, emergency response team members, flight attendants, coaches and nurses. Students who successfully pass all requirements will receive an American Red Cross (ARC) Certificate in Emergency Response and/or CPR for the Professional Rescuer.

Course Schedule

KIN 13 Sports Officiating

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Rules, regulations and career opportunities of various team and individual sports.

Course Schedule

KIN 15 Administration of Fitness Programs

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Leadership training and administrative skills related to fitness specialists, personal trainers and physical educators. Current issues, curriculum topics and practical skills related to careers in fitness and physical education.

Course Schedule

KIN 17 Introduction to Kinesiology

3 Units (Degree Applicable, CSU, UC, C-ID #: KIN 100) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Kinesiology as a profession and academic discipline. Explores subdisciplines, opportunities in the field, philosophy, scientific basis, and analysis.

Course Schedule

KIN 19 Introduction to Care/Prevention of Activity/Sports -Related Injuries

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Techniques and procedures for prevention and treatment of activity and sports-related injuries. Includes the responsibilities of the athletic trainer, policies and procedures of the athletic training room and the operation of rehabilitative modalities. Course Schedule

KIN 24 Applied Kinesiology

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

The study of movement as it relates to exercise and the interrelationships of body segments involved in human movement activity, actions of joints, nerves and muscle exercise. Course Schedule

KIN 34 Fitness for Living

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Survey and analysis of the components of fitness and wellness. Effects of fitness on optimal health, well-being, concepts of human movement, fitness program design, stress management, nutrition and weight maintenance. **Course Schedule**

KIN 38 Physiology of Exercise for Fitness

3 Units (Degree Applicable) Lecture: 54

Theory of basic physiological concepts as they pertain to exercise training and the prescription of individual fitness programs. Course Schedule

KIN 39 Techniques of Fitness Testing

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Theory and techniques of fitness testing, assessment, evaluation, and exercise program design. Includes laboratory experience and practical applications. This course is part of the Fitness Specialist Certificate. Course Schedule

KIN 40 Techniques of Strength Training and Conditioning

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Principles and techniques of strength training and cardiovascular conditioning. Includes both theory and practical instruction of strength training and cardiovascular exercise, special needs considerations, professional responsibilities and liabilities, skills needed for those entering the fitness training job field. Course Schedule

KIN 41 Techniques of Teaching Weight Training

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

Part of the Fitness Specialist Certificate covering the principles and techniques of teaching weight training. Includes muscle structure and function, training sequences, free weight and machine equipment, safety factors, including contraindications for exercise. **Course Schedule**

KIN 44 Theory of Coaching

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Coaching issues and problems facing the coach today and includes the philosophy, theory, and principles of developing and maintaining an athletic program. Designed for coaches at varying levels from youth league to high school varsity Course Schedule

KIN 50 Mt. Sac Fire Academy Physical Ability Entrance Exam

1 Unit (Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 9

Physical ability test for admission into the Mt. SAC Fire Academy. Candidates must be approved by Fire Technology Office. **Course Schedule**

KIN 81 Work Experience for Coaching

2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 150 Prerequisite: Compliance with Work Experience regulations as designated in College Catalog

Provides coaching and physical education students with on-the-job experience in approved worksites related to coaching. A minimum of 75 paid or 60 non-paid clock hours per semester is required for each unit of credit. Work experience placement is not guaranteed, but assistance is provided by the Coaching Certificate faculty advisor. Course Schedule

KIN 85 Fitness Specialist Internship

1 Unit (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lab: 75

Provides fitness specialist students with actual on-the-job skill development in fitness testing, analysis and prescription. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Fitness Certificate faculty advisor. **Course Schedule**

KIN 92 Work Experience - Athletic Training

2-3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 120-239 Prerequisite: KIN 19 and compliance with Work Experience regulations as designated in the College Catalog

Provides Athletic Trainer Aides and Kinesiology students with actual on-the-job experience in an approved worksite related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Instructor approval required.

Course Schedule

Latin (LATN)

LATN 1 Elementary Latin

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Advisory: Eligibility for READ 90 or eligibility for AMLA 33R

Emphasizes the ability to read basic Latin as it was written during the early, classical, and post-classical periods. Includes the study of vocabulary, grammar, Roman culture, and the history of the Latin language. For students with little or no prior experience in Latin. Course Schedule

LATN 2 Continuing Elementary Latin

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: LATN 1 Advisory: Eligibility for READ 90 or eligibility for AMLA 33R

Second semester of coursework for students with prior coursework in Latin. Development of vocabulary, grammar, and reading. Explores Roman history and culture. Course Schedule

Leadership (LEAD)

LEAD 55 Exploring Leadership 3 Units (Degree Applicable, CSU) Lecture: 54

Explores leadership theories and models, values and beliefs. Develops a personal philosophy of leadership that includes an understanding of self, others and community. Prepares students for leadership roles in any environment including college life. Course Schedule

Learning Assistance (LERN)

LERN 48 Basic Math Skills Review 3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only)

(May be taken for Pass/No Pass only) Lecture: 54

Math fundamentals: adding, subtracting, multiplying and dividing whole numbers and adding, subtracting and multiplying decimals. Emphasis on math learning strategies such as organization and managing math anxiety. Course Schedule

LERN 49 Math Skills Review

3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54 Prerequisite: LERN 48 or appropriate placement

Improves knowledge of basic math. Includes operations and applied problems in whole numbers, fractions, decimals, proportions, percents, and integers. Covers math study strategies such as learning preferences and self-assessment. Course Schedule

LERN 61 Skills Development Laboratory

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 54

Individualized instruction in the following subjects: reading comprehension and vocabulary, writing, elementary math, algebra review, study techniques (note-taking, goal-setting, test-taking, etc.). Course Schedule

LERN 62 Skills Development Laboratory

2 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 108

Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking). Course Schedule

LERN 81 Improving Writing

3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54

Develop as a writer through practice and reflection. Improve writing process and product through prewriting, writing, editing, and revising. Develop writing strategies and confidence in a community of writers. Course Schedule

Learning Communities (LCOM)

LCOM 80 Learning Communities: Individual Connections 1 Unit (Not Degree Applicable) Lecture: 18

Explores connections between self, courses, and learning community themes. Develops social networking skills, cognitive strategies, academic behaviors and confidence, and team building as related to success within a learning community. Concurrent enrollment in a learning community is required.

Course Schedule

LCOM 90 Learning Communities: Campus Connections 1 Unit (Degree Applicable) Lecture: 18

Analyzes connections between the individual and the campus. Focuses on the benefits of campus involvement in order to create student identity. Identifies connections between themes and topics of courses within a learning community. Explores problem based learning. Concurrent enrollment in a learning community is required. Field trips may be required.

Course Schedule

LCOM 100 Learning Communities: Interdisciplinary Connections

1 Unit (Degree Applicable) Lecture: 18

Interprets the connections between real world problems, course content, and learning community themes. Synthesizes interdisciplinary connections utilizing problem-based learning within a learning community. Evaluates successful team selection based on specific criteria including leadership skills and interpersonal relationships to establish collective efficacy. Concurrent enrollment in a learning community is required. Field trips may be required. Course Schedule

Library & Instructional Media (LIBR)

LIBR 1 Library Research Methods and Resources

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 68

Development of academic research plans to answer research questions with selection, synthesis, and ethical use of sources. Includes research question development and modification, use of a variety of types of sources, synthesis and communication of ideas, and attribution and citation of sources. Course Schedule

LIBR 1A Introduction to Library Research

1 Unit (Degree Applicable, CSU, UC) Lecture: 18 Advisory: Eligibility for ENGL 68

Introduction to academic research, with finding, evaluating, and citing sources. Includes research topic development, search techniques, criteria to evaluate information, and ethical use of sources. This class is recommended for students who have not taken LIBR 1. Course Schedule

Manufacturing Technology (MFG)

MFG 110 Introduction to CAD 4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Advisory: Eligibility for MATH 51

Formerly EDT 16

Basic Computer Aided Design (CAD) and computer applications (AutoCAD and SolidWorks) in engineering and related fields, including basic word processing, spreadsheet, CAD, and presentation applications. Production card and digital calipers required. Course Schedule

MFG 120 CAD for Manufacturing

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: MFG 110 or CSWA Certification

Formerly EDT 18

Intermediate CAD (Computer Aided Design) for engineering related industries, 2D and 3D environments, 3D parametric solid modeling. Construct assemblies and subassemblies; use and editing of mates. Certified SolidWorks Associate (CSWA) exit exam. Production card and digital calipers required. Course Schedule

MFG 130 Manufacturing Processes and Materials

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Formerly MFG 85

Common manufacturing processes and associated materials including rapid prototyping technologies, non-machining manufacturing processes such as metal and plastic bending, forming, molding and casting. Investigates structural concepts and joining methods. Course Schedule

MFG 140 Shop Practices

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54

Safety practices, tools, and methods used in fabrication and manufacturing industries. Mastery of tool and process selection, safety, and proficiency in machine operation skills. Course Schedule

MFG 150 Manual Machining I

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: MFG 140

Formerly MFG 11

Conventional mill and lathe safety and machining practices, tool nomenclature, lathe and mill operation, application and tooling. Application to Computer Numerical Control (CNC) machines. Production cards and calipers required. Course Schedule

MFG 155 Manual Machining II

2 Units (Degree Applicable, CSU) Lecture: 18 Lab: 54 Prerequisite: MFG 150

Formerly MFG 12

Intermediate application of conventional mill and lathe safety and machining practices, tool nomenclature, lathe and mill operation, application and tooling. Production cards; safety glasses, hearing protection and calipers required. Course Schedule

MFG 160 Introduction to Mechanical Principles

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: EDT 16 or MFG 110

Use of mechanical demonstration kits, computer aided design (CAD) and other media to survey mechanical devices, concepts, and principles common to manufactured products and manufacturing processes. Analysis, discussion, and problem solving related to mechanical design scenarios and supported by CAD. Emphasis on mechanical literacy. Production cards and calipers required. Field trips may be required. Course Schedule

MFG 180 Introduction to MasterCAM

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: MFG 155

Formerly MFG 38

Use MasterCAM X software to create wire-frame part geometry, add tool paths, and create computer numerical control (CNC) code for CNC mills and CNC lathes. Overview of tooling and tooling nomenclature. Course Schedule

MFG 210 Advanced CAD

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: MFG 120 or CSWA Certification

Formerly EDT 24

Advanced engineering Computer Aided Design (CAD) for developing detailed working drawings in 3D environments, incorporating 3D parametric solid modeling, bill of materials, and surface development. Production card required. Field trip required. Course Schedule

MFG 220 Computer Aided Manufacturing II

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 71 Prerequisite: MFG 120 and MFG 180

Formerly MFG 38B

Advanced use of industry standard computer aided manufacturing (CAM) software (MasterCam) to generate tool paths and create computer numerical control (CNC) code for operation of CNC mills and CNC lathes. Production cards and calipers required. Course Schedule

MFG 250 Introduction to CNC Programming

3 Units (Not Degree Applicable) Lecture: 18 Lab: 108 Prerequisite: MFG 150

Theory and practice of manually developing Computer Numerical Control (CNC) programs. Writing and editing program code for CNC mills and lathes. Methods of transmitting data to CNC machines and operation of CNC mills and lathes. Course Schedule

MFG 260 Intermediate CNC

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Prerequisite: MFG 250

Operation of computer numerical control (CNC) machines and their applications in manufacturing. Students will learn to analyze and interpret industry prints to determine datums, orient work to the machines, set up, and apply work holding solutions and basic tooling and machining strategies common in the industry. Students will be involved in producing and machining industry representative parts. Course Schedule

Mathematics (MATH)

MATH 50 Pre-Algebra

3 Units (Not Degree Applicable) Lecture: 54 Prerequisite: LERN 49 or appropriate placement.

Fundamental principles of mathematics designed to ease the transition from arithmetic to algebra. Concepts, computational skills, thinking skills and problem-solving skills are balanced to build proficiency in elementary topics from algebra and mastery in arithmetic. Course Schedule

MATH 51 Elementary Algebra

4 Units (Not Degree Applicable) Lecture: 72 Prerequisite: MATH 50 or qualifying score on current department placement test

Basic algebra, equivalent to first year high school algebra. Includes operations with signed numbers and algebraic expressions; linear, quadratic, rational, and radical equations; linear inequalities of one and two variables; slope/graphing/equations of lines; introduction to functions; systems of linear equations; exponent rules; polynomial operations; scientific notation; factoring; rational expressions; variation; radicals; fractional exponents; formulas; applications. Course Schedule

MATH 51A Elementary Algebra - First Half

3 Units (Not Degree Applicable) Lecture: 54 Prerequisite: MATH 50 or qualifying score on current department placement test

Contains the first half of elementary algebra. Operations with signed numbers and algebraic expressions; linear equations and inequalities; exponent rules; polynomial operations; scientific notation; factoring; solving quadratic equations by factoring; rational expressions and equations; formulas; variation; applications. Course Schedule

MATH 51B Elementary Algebra - Second Half

3 Units (Not Degree Applicable) Lecture: 54 Prerequisite: MATH 51A

Contains the second half of Elementary Algebra. Includes: Cartesian Coordinate System, slope/graphing/equations of lines, solving systems of linear equations, algebraic operations with radicals, solving equations with radicals, solving second degree equations using methods of completing the square and the quadratic formula. Students must complete both MATH 51A and MATH 51B to have taken the equivalent of Elementary Algebra (MATH 51). Course Schedule

MATH 61 Plane Geometry

3 Units (Degree Applicable) Lecture: 54 Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test

Points, lines, polygons and circles; their relationships to each other on plane surfaces; congruence, similarity and area. Introduction to inductive, deductive and indirect reasoning. The formal proof is introduced and practiced throughout the course. Stress is placed on accuracy of statement as a background for analytical and scientific reasoning. Course Schedule

MATH 70S Integrated Intermediate Algebra

5 Units (Degree Applicable) Lecture: 90 Prerequisite: MATH 50 or appropriate placement

Math 70S and 110S form a two-semester sequence that leads students through college level statistics. Simplification, solving of equations, graphing, and applications are covered. Each is applied to the following mathematical functions: polynomial, rational, radical, exponential and logarithmic. Rates and proportions, linear systems of equations, inequalities, sequence, series, design of experiments, one- and twovariable descriptive statistics are also covered. Course Schedule

MATH 71 Intermediate Algebra

5 Units (Degree Applicable) Lecture: 90 Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test

Extends concepts from elementary algebra to prepare students for college-level mathematics courses. Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved and functions graphed and studied; linear and nonlinear systems of equations and inequalities; conic sections; sequence, series and the binomial theorem Course Schedule

MATH 71A Intermediate Algebra - First Half 3 Units (Not Degree Applicable) Lecture: 54

Prerequisite: MATH 51 or MATH 51B appropriate placement.

Algebra of functions, polynomials, and rational expressions; functions and their graphs; systems of equations with two or three variables; absolute value and compound inequalities. Covers approximately half of the MATH 71 topics. A student must complete both MATH 71A and 71B to have taken the equivalent of MATH 71, Intermediate Algebra. Course Schedule

MATH 71B Intermediate Algebra - Second Half

3 Units (Degree Applicable) Lecture: 54 Prerequisite: MATH 71A

Quadratic equations and graphs; exponents, radicals and logarithms; conic sections. Covers remaining MATH 71 topics. A student must complete both MATH 71A AND 71B to have taken the equivalent of MATH 71, Intermediate Algebra. Course Schedule

MATH 71X Practical Intermediate Algebra

5 Units (Degree Applicable) Lecture: 90 Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test.

Intermediate Algebra for the non-calculus path. Polynomial, rational, radical, exponential, and logarithmic expressions are simplified, equations solved, and real-world phenomena are modeled using least-squares methods, functions graphed and analyzed; linear and nonlinear systems of equations and inequalities; sequences, series, and probabilities; data gathering instruments are used to sample data for curve fitting. Course Schedule

MATH 96 Strategies for Math Success

1 Unit (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 18

Perspectives, understandings and strategies to utilize a learning system for acquiring, understanding, remembering and producing mathematical knowledge. Course is appropriate for all levels of mathematics students. Course Schedule

MATH 99 Special Projects in Mathematics

2 Units (Degree Applicable, CSU) Lecture: 36

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the math department from time to time offers Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Instructor authorization needed prior to enrollment. Course Schedule

MATH 100 Survey of College Mathematics

3 Units (Degree Applicable, CSU, UC)

Lecture: 54

Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test

Mathematical methods and reasoning. Topics include: set theory, logic, counting methods, probability and statistics, with additional topics selected from numeration and mathematical systems, number theory, geometry, graph theory and mathematical modeling. Course Schedule

MATH 110 Elementary Statistics

3 Units (Degree Applicable, CSU, UC, C-ID #: MATH 110) Lecture: 54

Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test

Descriptive and inferential statistics and probability with emphasis on understanding statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation, and analysis of variance. Course Schedule

MATH 110H Elementary Statistics - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: MATH 110) Lecture: 54

Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying passing score on current department placement test) and acceptance into the Honors Program.

Descriptive and inferential statistics and probability with an emphasis on understanding statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation, and analysis of variance. An honors course designed to provide an enriched experience. May not receive credit for MATH 110 and MATH 110H. Course Schedule

MATH 110S Integrated Statistics

5 Units (Degree Applicable, CSU, UC) Lecture: 90 Prerequisite: MATH 70S

MATH 110S is an elementary course in descriptive and inferential statistics. Observational and experimental studies, design of experiments, descriptive statistics, probability, discrete and continuous probability distributions, estimates, and hypothesis tests. For categorical data, inferences include one or two sample proportions, one- and twoway tables (chi-square goodness of fit). For quantitative data, inferences for one or two sample means, one-way ANOVA. Inferences in linear correlation and regression are included. Course Schedule

MATH 120 Finite Mathematics

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test

Linear programming, matrix theory, probability, statistics, stochastic processes, Markov chains, and math of finance. Applications for business, economics, and social sciences. Course Schedule

MATH 130 College Algebra

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 71 or MATH 71B or appropriate placement

College-level Algebra course. Study of real numbers and sets, algebraic functions and relations, radicals and exponents, linear and quadratic equalities and inequalities, exponential and logarithmic functions, systems of linear and quadratic equations, complex numbers, series, theory of equations, mathematical induction and binomial formula. Course Schedule

MATH 140 Calculus for Business

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 130 or MATH 160 or qualifying score on current department placement test

Calculus for business, social science, and non-science majors. Algebraic, logarithmic, and exponential functions; limits; differentiation with applications; various techniques of integration with applications; differential equations; multi variable calculus. Course Schedule

MATH 150 Trigonometry

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: MATH 71 or MATH 71B or appropriate placement AND MATH 61 or passing score on current geometry competency test.

Trigonometric functions and inverse trigonometric functions and the graphical representations of these functions; solutions to right and oblique triangles with laws of sines and cosines; vectors; solutions to trigonometric equations; identities; polar coordinates; complex numbers and DeMoivre's Theorem. Course Schedule

MATH 160 Precalculus Mathematics

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 150 or appropriate placement

Prepares students for the calculus sequence. Real-valued functions, including algebraic, trigonometric, exponential, and logarithmic functions. Also includes proofs, inequalities, introductory analytical geometry, series, sequences, and vectors. Course Schedule

MATH 180 Calculus and Analytic Geometry

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 160 or qualifying score on current department placement test

Differential and integral calculus with applications. Functions, limits, the derivative, curve sketching, optimization, and rules for differentiation of algebraic, exponential, logarithmic, and trigonometric functions with their inverses, with applications. Indefinite and definite integrals. Course Schedule

MATH 181 Calculus and Analytic Geometry

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 180

Differential and integral calculus with infinite series and applications. Includes applications of integration, techniques of integration, numerical integration, indeterminate forms and improper integrals, differential equations, and polar coordinates. Course Schedule

MATH 245 A Transition to Advanced Mathematics

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MATH 181

A transition to the rigors of upper-division mathematics courses. Basic set theory and logic, relations, functions, mathematical induction, the well-ordering principle, countable and uncountable sets, the Schroder-Bernstein Theorem, the axiom of choice, Zorn's Lemma, the Heine-Borel Theorem, the Bolzano-Weierstrass Theorem. Special emphasis on how to present and understand mathematical proofs. Course Schedule

MATH 260 Linear Algebra

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MATH 181

Matrices, linear systems, determinants, vector and inner product spaces, linear transforms, eigenvalues, and eigenvectors. Course Schedule

MATH 280 Calculus and Analytic Geometry

5 Units (Degree Applicable, CSU, UC, C-ID #: MATH 230) Lecture: 90 Prerequisite: MATH 181

Multivariate and vector calculus, which includes vectors in two and three space and surfaces in space. Analysis of vector-valued functions. Partial derivatives, differentials, the chain rule, directional derivatives, and the gradient. Extrema of functions of several variables with applications. Multiple integrals in various coordinate systems with applications. Vector fields, line integrals, and independence of path. Green's Theorem, surface integrals, flux, divergence, and curl. Stokes' Theorem and the Divergence Theorem.

Course Schedule

MATH 285 Linear Algebra and Differential Equations

5 Units (Degree Applicable, CSU, UC) Lecture: 90 Prerequisite: MATH 280

First order ordinary differential equations, with applications and numerical methods. Solutions to higher order differential equations using undetermined coefficients, variation of parameters, and power series, with applications. Solutions to linear and non-linear systems of differential equations, including numerical solutions. Matrix algebra, solutions of linear systems of equations, and determinants. Vector spaces, linear independence, basis and dimension, subspace and inner product space, including the Gram-Schmidt procedure. Linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization and symmetric matrices. Course Schedule

MATH 290 Differential Equations

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: MATH 280

First-order ordinary differential equations, including separable, linear, homogeneous, Bernoulli, and exact, with applications and numerical methods. Solutions to higher-order differential equations using undetermined coefficients, variation of parameters, power series, and Laplace transforms, with applications. Solutions to linear and non-linear systems of differential equations, including numerical solutions. Course Schedule

Medical Terminology (MEDI)

MEDI 90 Medical Terminology 3 Units (Degree Applicable, CSU) Lecture: 54

Medical terminology used in various allied health fields. Course Schedule

Mental Health/Psychiatric Technician (MENT)

MENT 40 Introduction to Interviewing and Counseling 3 Units (Not Degree Applicable) Lecture: 54

Theory and practice in interviewing skills. Stresses application of counseling theories, helping skills, and consultation theories to allow exploration of self as a helper and learn facilitating skills to bring about change. Emphasis on establishing rapport, obtaining information and developing a supportive relationship in a variety of mental health settings.

Course Schedule

MENT 56 Medical-Surgical Nursing for Psychiatric Technicians

9 Units (Degree Applicable) Lecture: 162 Prerequisite: Admission to the Psychiatric Technician Program Corequisite: MENT 56L

Holistic approach to assessment and intervention in the care of the medical-surgical patient. Examines physiological modes of rest and exercise, regulation, circulation, ventilation, reproductive, elimination and the sensory system; medical-surgical nursing; care of the dying patient, cardiovascular problems; calculations of drug dosage and administration of medications; study of anatomy and physiology of the human body. Course Schedule

MENT 56L Medical-Surgical Clinical Experience

4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 216 Corequisite: MENT 56

Application, assessment, intervention, and evaluation of nursing treatment in the physiological modes of rest and exercise, regulation, nutrition, elimination, application of emergency procedures, circulation, ventilation, fluids, and electrolytes. Psychosocial aspects of care including interdependence, role function, self-concept, care of aged, and cultural aspects. Development and application of nursing skills for those with medical-surgical problems and special needs. Calculation and administration of medications. Roy's Adaptation Model serves as the conceptual framework. Course Schedule

MENT 58D Advanced Medical-Surgical Nursing and Pharmacology for PT

4 Units (Degree Applicable) Lecture: 72 Prerequisite: MENT 56, MENT 56L Corequisite: MENT 58L

Disease processes affecting body systems; etiology; required nursing care; study of drugs: standards, administration, dose calculations. Course Schedule

MENT 58L Advanced Medical-Surgical Nursing for Psychiatric Technicians Clinical

1.5 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 90 Prerequisite: MENT 56 and MENT 56L Corequisite: MENT 58D

The application of nursing skills to patients with medical-surgical disorders which includes administration of medications utilizing the Nursing Process. Sister Callista Roy's Adaptation Model serves as the conceptual framework. Course Schedule

MENT 70 Introduction to Psychiatric Technology

1.5 Units (Degree Applicable) Lecture: 27 Prerequisite: Admission to Psychiatric Technician Program Corequisite: MENT 70L

Role and function of the Psychiatric Technician. Includes mental health theories of personality development, self-concept, role function, and interdependence. Also includes developmental disabilities theories of sensorimotor techniques and positive behavior support techniques. Course Schedule

MENT 70L Introduction to Psychiatric Technology Clinical Technicians

2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 108 Corequisite: MENT 70

Clinical experience at mental health facilities within the community which serve people with mental health and intellectual, physical and other developmental disabilities. Course Schedule

MENT 72 Nursing Care of the Developmentally Disabled Person

7 Units (Degree Applicable) Lecture: 126 Prerequisite: MENT 56, MENT 56L, MENT 70, MENT 70L Corequisite: MENT 72L

Etiology of developmental disabilities; develops the knowledge, skills, and attitudes necessary to safely teach individuals diagnosed with intellectual and developmental disabilities. Techniques of behavior modification, positive behavior support and sensorimotor training are used, as well as the teaching of self-help skills. Examines normal development from infancy to the aged. Course Schedule

MENT 72L Nursing Care of the Developmentally Disabled Person -Clinical

5.5 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 287 Corequisite: MENT 72

Application of skills needed to teach, train, and provide care for the individuals with intellectual/physical and other developmental disabilities. Course Schedule

MENT 73L Psychiatric Nursing for Psychiatric Technicians Clinical 5.5 Units (Degree Applicable)

(May be taken for Pass/No Pass only) Lab: 287 Prerequisite: Admission to Psychiatric Technician Program. MENT 56 and MENT 56L Corequisite: MENT 73T

Clinical instruction in the assessment and treatment of individuals diagnosed with mental disorders. Course Schedule

MENT 73T Psychiatric Nursing for Psychiatric Technicians

6 Units (Degree Applicable) Lecture: 108 Prerequisite: MENT 56 MENT 56L Corequisite: MENT 73L PSYC 1A Advisory: MENT 40

Theoretical instruction in the assessment and treatment of individuals diagnosed with mental disorders, medications used in the treatment of mental disorders, therapeutic communication and other therapeutic techniques, and assertiveness and leadership skills necessary for safe practice as a licensed Psychiatric Technician. Course Schedule

MENT 82 Work Experience in Mental Health Technology

2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 150 Prerequisite: MENT 72 and MENT 73T and compliance with Work Experience regulations as designated in the College Catalog.

Provides students with on-the-job experience in the field of mental health, nursing skills, addiction paraprofessional training, and/or developmental disability, related to classroom instruction, at an approved work site. On-the-job experience at an approved work site. Requires 150 paid or 120 non-paid hours. Course Schedule

Meteorology (METO)

METO 3 Weather and the Atmospheric Environment

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Processes that influence weather and climate: seasonality, structure of the atmosphere, atmospheric stability, severe weather (hurricanes, tornadoes, thunderstorms,) climate change, and the causes and effects of air pollution. Students will use a variety of weather instruments, and the course may include either field work or field trips. Course Schedule

METO 3L Weather and Atmospheric Environment Laboratory

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: METO 3 (May have been taken previously)

Laboratory applications and problem-solving related to the atmospheric environment. Emphasizes the collection and analysis of weather and climate data. Course Schedule

Microbiology (MICR)

MICR 1 Principles of Microbiology

5 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 108 Prereguisite: CHEM 10 or CHEM 40

Fundamental concepts of microbiology with emphasis on bacteria. Survey of microbial classification, morphology, physiology, and genetics; beneficial and pathological aspects; growth and control of microbes; virology, immunology, and host-microbe interactions. Important infectious diseases of humans are surveyed. Laboratory exercises examine microbial morphology, physiology, and genetics as well as environmental influences of microorganisms. Laboratory techniques include culturing, examining, and identifying microorganisms. Field trips are required. Course Schedule

MICR 22 Microbiology

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: CHEM 10 or CHEM 40 Advisory: BIOL 1 or BIOL 4 or BIOL 4H

Fundamental concepts of microbiology including viruses, bacteria, fungi, protozoa and parasitic worms. Course Schedule

MICR 26 Introduction to Immunology

3 Units (Degree Applicable) Lecture: 54 Prerequisite: MICRO 1 or MICRO 22 Advisory: BIOL 1 or BIOL 4 or BIOL 4H

Immunology including principles of innate and adaptive immunity, B and T lymphocyte structure, function, and development, the major histocompatibility complex, immune system errors, and applications and techniques in the immunology field as they pertain to medical diagnostics, immunohistochemistry, and biotechnology. Course Schedule

Music (MUS)

MUS 2 Music Theory

3 Units (Degree Applicable, CSU, UC, C-ID #: MUS 120) Lecture: 54 Corequisite: MUS 5A

Preparation for the study of harmony and form as it is practiced in Western tonal music. Topics include scales, intervals, chords, cadences, counterpoint and Roman numeral analysis. Ability to read music notation is advised. Required for music majors. Course Schedule

MUS 3A Harmony - Diatonic

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MUS 2 Corequisite: MUS 5B

An examination of harmony and form as it is practiced in Western tonal music. This course covers diatonic harmony, from its syntax to its contrapuntal conventions, with musical examples drawn primarily from Renaissance ground basses, American folksong and the chorales of Bach. Course Schedule

MUS 3B Harmony - Chromatic I

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MUS 3A Corequisite: MUS 6A

Harmony and form as it is practiced in Western tonal music. This course focuses on secondary chromaticism and modulation. Course Schedule

MUS 3C Harmony - Chromatic II

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: MUS 3B Corequisite: MUS 6B

Examination of harmony and form as it is practiced in Western tonal music with a focus on advanced chromatic harmony. The course concludes with a study of sonata form as practiced by Haydn, Mozart and Beethoven.

Course Schedule

MUS 5A Musicianship - Ear Training and Sight Singing

1 Unit (Degree Applicable, CSU, UC, C-ID #: MUS 125) Lab: 54

Corequisite: MUS 2

Training in diatonic sight singing, rhythm reading, aural recognition and the dictation of rhythm and diatonic melody. Ability to read music and match pitch is advised. Required for music majors. Course Schedule

MUS 5B Musicianship - Diatonic

1 Unit (Degree Applicable, CSU, UC, C-ID #: MUS 135) Lab: 54 Prerequisite: MUS 5A Corequisite: MUS 3A

Training in sight singing, rhythm reading, aural recognition and the dictation of rhythm, melody and harmony. This course covers diatonic music.

Course Schedule

MUS 6A Musicianship - Chromatic I

1 Unit (Degree Applicable, CSU, UC, C-ID #: MUS 145) Lab: 54 Prerequisite: MUS 5B Corequisite: MUS 3B

Sight singing and dictation of music with chromatic embellishments, secondary functions and modulations to closely-related keys. Course Schedule

MUS 6B Musicianship - Chromatic II

1 Unit (Degree Applicable, CSU, UC, C-ID #: MUS 155) Lab: 54 Prerequisite: MUS 6A Corequisite: MUS 3C

Sight singing and dictation of music with borrowed chords, linear chromaticism and modulation to foreign keys. Course Schedule

MUS 7 Fundamentals of Music

3 Units (Degree Applicable, CSU, UC, C-ID #: MUS 110) Lecture: 54

Introduction to music notation and the elements of music. Staff notation, pitch, rhythm, diatonic scales, intervals, and tertian harmony. Course Schedule

MUS 9 Introduction to Music Technology

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Advisory: Eligibility for ENGL 68

Uses of computers and electronic devices to capture, create, modify and disseminate music. Provides an introduction to the principles of musical acoustics, sound recording, and digital audio. Computer software for MIDI sequencing, sound synthesis, digital sampling, editing, music notation and composition will be demonstrated and practiced in class. Assignments will include the creation of original music. Course Schedule

MUS 10A Keyboard Skills

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Advisory: Ability to read music notation

Keyboard (piano) skills required for music majors emphasizing practical skills applicable to professional positions in music education. Exercises include harmonization of melodies, transposition, sight-reading, improvisation, and theory as applied to the keyboard. Emphasizes proficiency with scales, broken triads and seventh chords of major and minor keys, using hands separately and together, up to two octaves. Course Schedule MUS 10B Keyboard Skills 1 Unit (Degree Applicable, CSU, UC) Lab: 54 Prerequisite: MUS 10A or admission by audition

Keyboard (piano) skills, required for music majors, including harmonization of melodies, transposition, sight-reading, improvisation, and theory. Emphasizes proficiency with scales as well as arpeggios of triads and seventh chord of both major and minor keys up to two octaves; harmonization of melodies with tonic, subdominant, and dominant triads and seventh chords; transposition of simple melodies by a minor and major second, higher and lower; improvisation on given progression; and realization of diatonic figured bass with first and second inversions. Course Schedule

MUS 11A Music Literature Survey

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Western music from the 15th through the 18th century, including examples of non-western cultures, for music majors. Lectures are augmented by sound recordings. Attending a live concert may be required.

Course Schedule

MUS 11B Music Literature Survey

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Western music from the 18th to the early 21st century including examples from several non-western cultures that have influenced music of those style periods. Lectures are augmented by recordings and other support media pertinent to the cultures and periods being studied. Attending at least one live concert is required. Course Schedule

MUS 12 History of Jazz

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Advisory: Eligibility for ENGL 68.

A survey of jazz as a significant American art form from its roots in African music to the present. Major styles, leading performers, significant compositions and recordings, and the social, economic, and cultural contexts of the music will be stressed. Course Schedule

MUS 13 Introduction to Music Appreciation

3 Units (Degree Applicable, CSU, UC, C-ID #: MUS 100) Lecture: 54

Western music from the medieval period through the 21st century, including music from a variety of cultures. Lectures are augmented by recordings and other support media pertinent to the culture and period being studied. Attending at least one live concert is required. Course Schedule

MUS 13H Introduction to Music Appreciation - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: MUS 100) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Western music from the medieval period through the 21st century, including music from a variety of cultures. Lectures are augmented by recordings and other support media pertinent to the culture and period being studied. Attending at least one live concert is required. An honors course designed to provide an enriched experience. Students may not receive credit for both MUS 13 and MUS 13H. Course Schedule

MUS 14A World Music

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 68

Examines the dominant musical cultures of the world within Africa, the Americas, Europe, and Asia and compares these to Western popular music. Identifies vocal and instrumental genres within selected cultures and examines the harmonic, melodic, and rhythmic characteristics of each style. Lectures, films, recordings, and media presentations will assist the student in exploring the ways in which music is used around the world for aesthetic, social, and spiritual purposes. Course Schedule

MUS 14B American Folk Music

3 Units (Degree Applicable, CSU, UC) Lecture: 54

The study of American folk music by both region and period. Instruction will include lecture, reading, and listening assignments, and various audio-visual materials. No previous musical experience required. Course Schedule

MUS 15 Rock Music History and Appreciation

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Historical survey of rock music from its beginnings in the early 1950s to the present. Rhythm & blues, rockabilly, the British Invasion, Motown, soul, folk rock, hard rock, punk, metal, and various alternative rock styles will be discussed. Personalities and musical styles will be related to the sociology of the time period being studied. Course Schedule

MUS 15H Rock Music History and Appreciation - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Historical survey of rock music from its beginnings in the early 1950s to the present. Rhythm & blues, rockabilly, the British Invasion, Motown, soul, folk rock, hard rock, punk, metal, and various alternative rock styles will be discussed. Personalities and musical styles will be related to the sociology of the time period being studied. An honors course designed to provide enriched experience. Students may not receive credit for both MUS 15 and MUS 15H. Course Schedule

MUS 16 Individual Instruction

0.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) Lab: 32 Prerequisite: Admission by audition

Applied music for students also enrolled in a major performing group. Instruction includes a private one-half hour lesson per week. Individual problems of performance techniques, interpretation, and repertoire are included. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

MUS 17A Elementary Piano

1 Unit (Degree Applicable, CSU, UC) Lab: 54

Reading and performance of piano literature with emphasis on scales, chord progressions, and sight reading. No prior musical experience is required. Course Schedule

MUS 17B Intermediate Piano

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Advisory: MUS 17A

Reading and performances of piano literature with emphasis on major and minor scales in multiple octaves utilizing multiple textures. Includes use of damper pedal. Course Schedule

MUS 18 Advanced Piano

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Advisory: MUS 17B

Style, technique, and interpretation of piano music from the 17th century to the present are studied collectively and individually. Sight reading, improvisation, and ensemble playing will be emphasized. Recommended for music majors. Course Schedule

MUS 20A Elementary Voice

1 Unit (Degree Applicable, CSU, UC) Lab: 54

Group singing instruction with an emphasis on breathing and posture and their importance in the singing of the musical line, performance techniques, and vocal quality. English and American songs are studied and performed. Open to non-music majors and recommended for all music majors. Course Schedule

MUS 20B Intermediate Voice

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Advisory: MUS 20A

Group and individual instruction concentrating on individual vocal development and emphasizing singing techniques required for singing popular, theatrical, and classical music. Includes singing in foreign languages.

Course Schedule

MUS 21 Advanced Voice

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Advisory: MUS 20B

Group and individual study of the style, techniques, and interpretation of art songs and songs from operas and musicals. Emphasis will be placed on diction and pronunciation Italian, German, and French. Course Schedule

MUS 22 Conducting

1.5 Units (Degree Applicable, CSU) Lecture: 18 Lab: 18

Beat patterns, score reading, and rehearsal techniques for conducting. Includes techniques needed for group direction and leadership. Course Schedule

MUS 23A Elementary Guitar

1 Unit (Degree Applicable, CSU, UC) Lab: 54

Acoustic guitar playing, note reading, strumming, finger picking, and improvisation. Students must furnish their own guitars. Course Schedule

MUS 23B Intermediate Guitar

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Advisory: MUS 23A

Techniques for reading and playing music arranged for the solo guitar. Students must furnish their own acoustic guitar. Course Schedule

MUS 24 Advanced Guitar

1 Unit (Degree Applicable, CSU, UC) Lab: 48 Advisory: MUS 23B

Style, technique, and interpretation of guitar music of the 18th and 19th centuries. Includes sight reading and ensemble playing. Students must furnish their own acoustic guitars. Course Schedule

MUS 25A Jazz Improvisation

1 Unit (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 54

Styles and techniques of jazz improvisation. Students must furnish their own musical instruments to play for and with the class. Course Schedule

MUS 25B Advanced Jazz Improvisation

1 Unit (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lab: 54 Advisory: MUS 25A

Advanced techniques of jazz improvisation. Includes minor, dominant, and pentatonic scales along with arpeggiating polychords, altered chords, chord progressions, and 32-bar jazz standards. Students must furnish their instruments and be able to perform individually and with the class. Course Schedule MUS 27 Chamber Music 1.5 Units (Degree Applicable, CSU, UC, C-ID #: MUS 180) (May be taken four times for credit) Lab: 72 Prerequisite: Admission by audition

Select ensemble of winds, strings, guitar, and percussion instrumentalists specializing in the performance of chamber music from the medieval period to the present. The course may include brass quintets, woodwind quintets, saxophone quartets, and mixed instrumental ensembles of two through twenty performers. Students must have previous instrumental experience and pass an entrance audition during the first week of instruction. Public performances on campus and in the community are required. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

MUS 29 Choral Workshop

1 Unit (Degree Applicable, CSU, UC) (May be taken four times for credit) Lab: 54

Choral music of all genres with an emphasis on strengthening choral skills, including sight singing, tone, blend, balance and good vocal technique. Covers choral tone of the Renaissance to correct use of the microphone when singing pop or vocal jazz. Students who repeat this course will improve skills through further instruction and practice. Open to all students without an audition. Course Schedule

MUS 30 Collegiate Chorale

1 Unit (Degree Applicable, CSU, UC) (May be taken four times for credit) Lab: 54

A non-auditioned mixed choral ensemble open to all students. A variety of mixed choral repertoire will be studied and performed, from music of the Renaissance to contemporary Pop, Broadway, and Vocal Jazz. Rehearsal time will also be devoted to vocal development and improving music theory skills. Students who repeat this course will improve skills through further instruction and practice. Attendance at performances is required. Course Schedule

MUS 31 Concert Choir

1.5 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 72Prerequisite: Admission by audition

A large mixed choral ensemble in which students perform a variety of major choral works. Classical songs are rehearsed in class and performed for a public audience. Sight singing skills and proper vocal technique are emphasized. Voice placement auditions are held the first week of class. Attendance at all performances including those off-site is required. Students who repeat this course will improve skills through further instruction and practice. Auditions held first week of the semester. Course Schedule

MUS 34 Women's Vocal Ensemble

1 Unit (Degree Applicable, CSU, UC, C-ID #: MUS 180) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 54 Prerequisite: Admission by audition during the first week of class

Women's vocal ensemble that studies and performs selected classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances including off-campus locations. Students who repeat this course will improve skills through further instruction and practice. Auditions held the first week. Course Schedule

MUS 36 Wind Symphony

1 Unit (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 54

A wind and percussion ensemble open to students with prior instrumental experience. A variety of wind band repertoire will be studied and performed, from music of the medieval period to contemporary compositions. Rehearsal time will also be devoted to instrumental and aural skills development. Opportunities to conduct, arrange and compose music, and perform as a soloist may be provided. Students who repeat this course will improve skills through further instruction and practice. . Public performances on campus and in the community may be required each semester.

Course Schedule

MUS 38 Ensemble

0.5 Units (Degree Applicable, CSU, UC)
(May be taken four times for credit)
(May be taken for option of letter grade or Pass/No Pass)
Lab: 36

Prerequisite: Ability to read music or admission by audition

The study and performance of music written for small ensembles. On campus performances may be required. Course Schedule

MUS 39 Laboratory Band

2 Units (Degree Applicable, CSU) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition

Study and performance of improvisation, jazz and pop music of all types. Open to all students with prior instrumental experience. Audition may be required. Course Schedule

MUS 44 Vocal Jazz Ensemble

2 Units (Degree Applicable, CSU, UC) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition

A vocal ensemble appropriate for beginning and intermediate jazz singers. This group will perform vocal jazz charts accompanied by a rhythm section, as well as a cappella. Basics of singing jazz, vocal improvisation, group singing techniques, and microphone techniques. Ensemble will perform locally and/or at vocal jazz festivals. Attendance at performances and competitions is required. Students who repeat this course will improve skills through further instruction and practice. Course Schedule

MUS 45 Chamber Singers

2 Units (Degree Applicable, CSU, UC, C-ID #: MUS 180) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition

Premier mixed choral group, specializing in smaller ensemble repertoire. A wide variety of choral literature is performed publicly several times each semester and a performance tour occurs each spring semester. Emphasizes advanced musical skills and vocal techniques while focusing on the importance of blend, balance, and tone. Auditions for this course are held each May. Students who repeat this course will improve skills through further instruction and practice. Off-campus performances are required.

Course Schedule

MUS 47 Jazz Ensemble

2 Units (Degree Applicable, CSU, UC, C-ID #: MUS 180) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition.

Study and performance of jazz and big band music. Provides an opportunity to learn techniques applicable to the large jazz ensemble. Off-campus public performance required. Students who repeat this course will improve skills through further instruction and practice. Admission by audition. Course Schedule

MUS 48 Men's Vocal Ensemble

2 Units (Degree Applicable, CSU, UC, C-ID #: MUS 180) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition the first week of class

Men's vocal ensemble that studies and performs selected classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances including off-campus locations. Students who repeat this course will improve skills through further instruction and practice. Auditions held the first week. Course Schedule

MUS 49 Wind Ensemble

2 Units (Degree Applicable, CSU, UC, C-ID #: MUS 180) (May be taken four times for credit) Lab: 108 Prerequisite: Admission by audition

The premier classical wind and percussion ensemble at the college. Students must have previous musical training, a standard band instrument and pass an entrance audition. A variety of wind band repertoire will be studied and performed, from music of the medieval period to contemporary compositions. Public performances on campus and in the community are required each semester and a concert tour may be included. Opportunities to conduct, arrange and compose music, and perform as a soloist may be provided to capable students. Students who repeat this course will improve skills through further instruction and practice.

Course Schedule

MUS 50 Jazz Improvisation and Performance Choir

2 Units (Degree Applicable, CSU, C-ID #: MUS 180) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Prerequisite: Admission by audition

A premier vocal jazz choir. This choir will perform vocal jazz arrangements and students will study the historical, theoretical and technical aspects of both instrumental and vocal jazz. Solo singing techniques and scat singing will be rehearsed and the choir will perform at least one concert each semester at Mt. SAC along with attending and performing at a variety of musical venues. Work with guest artists and make CD recordings. Attendance is required at assigned public performances. Students who repeat this course will improve skills through further instruction and practice. Admission by audition. Offcampus performances are required. Course Schedule

MUS 99 Special Projects in Music

1-2 Units (Degree Applicable, CSU) Lab: 54-108

Offered to selected students in recognition of academic interests and abilities to give them the opportunity to explore these interests and abilities in greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's approval before enrolling in this course. Course Schedule

Nursing (NURS)

NURS 1A The Nursing Process I

5 Units (Degree Applicable, CSU)

Lecture: 45 Lab: 135

Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent Correquisite: NURS 2

Corequisite: NURS 2

Principles of nursing as related to a culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process. Including meaning of illness, promoting health patterns, hygiene, safety, asepsis, medication administration, elimination, communication. The Betty Neuman Model serves as the conceptual framework.

Course Schedule

NURS 1B The Nursing Process II

5 Units (Degree Applicable, CSU) Lecture: 45 Lab: 135 Prerequisite: NURS 1A Corequisite: NURS 2

Principles of nursing as related to culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process including wound care, legal/ethical aspects, comfort, fluid and electrolytes, spirituality, and nursing trends. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 2 Pharmacology

2 Units (Degree Applicable, CSU) Lecture: 36 Prerequisite: Admission to Nursing Program and eligibility for MATH 51 Corequisite: NURS 1A

Ethical and legal responsibilities in the administration of medications. Application of mathematical concepts, the nursing process, and drug therapy to the administration of fluids and medications. Course Schedule

NURS 3 Medical-Surgical Nursing: Locomotion/Sensory/Integ/ Oncology/Immu

3.5 Units (Degree Applicable, CSU) Lecture: 30 Lab: 108 Prerequisite: NURS 1B and NURS 2 or Advanced Placement

Concepts of nursing assessment and intervention with application to clients with integumentary and immunologic disorders as well as dysfunctions of sensation and locomotion. An introduction to oncology nursing is included. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 4 Maternity Nursing

3 Units (Degree Applicable, CSU) Lecture: 27 Lab: 81 Prerequisite: NURS 3 or Advanced Placement

Concepts of nursing assessment and intervention with application to maternity and newborn clients. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 5 Psychiatric Nursing

3 Units (Degree Applicable, CSU) Lecture: 27 Lab: 81 Prerequisite: NURS 7 or NURS 70 (Advanced Placement) and PSYC 1A or PSYC 1AH

Concepts of nursing assessment and intervention with application to clients with psychiatric disorders in a mental health setting. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 6 Pediatric Nursing

3 Units (Degree Applicable, CSU) Lecture: 27 Lab: 81 Prerequisite: NURS 4 or NURS 70 (Advanced Placement) and CHLD 10 or CHLD 10H or PSYC 14

Concepts of nursing assessment, diagnosis, planning, implementation, and evaluation with application to pediatric clients. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 7 Medical-Surgical Nursing: Nutrition/Elimination/ Surgical Asepsis

7 Units (Degree Applicable, CSU) Lecture: 63 Lab: 189 Prerequisite: NURS 6 or Advanced Placement

Nursing assessment and intervention with application to clients with problems of nutrition, elimination, and the reproductive systems. Clients in pre-, intra-, and post-operative settings are included. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 8 Medical-Surgical Nursing: Circulation and Oxygenation

5 Units (Degree Applicable, CSU) Lecture: 45 Lab: 135 Prerequisite: NURS 5 or Advanced Placement (NURS 70) Corequisite: NURS 9

Nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 9 Leadership in Nursing

1 Unit (Degree Applicable, CSU) Lecture: 18 Prerequisite: NURS 5 or Advanced Placement (NURS 70) Corequisite: NURS 8

Nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 10 Medical-Surgical Nursing: Integration/Regulation

4 Units (Degree Applicable, CSU) Lecture: 45 Lab: 81 Prerequisite: NURS 8 and NURS 9, or Advanced Placement (NURS 70)

Concepts of nursing assessment and intervention with application to clients with neurological and endocrine disorders. The Betty Neuman Model serves as the conceptual framework. Course Schedule

NURS 11 Preceptorship in Nursing

2 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 108 Prerequisite: NURS 10 or Advanced Placement

Students participate as a pre-licensed Registered Nurse immediately prior to graduation. Students assume responsibility for a group of clients under direct supervision of a qualified registered nurse. Course Schedule

NURS 20 Nursing Work Experience Program

1-4 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program

On-the-job experience for nursing students in an approved work setting related to classroom, theory and clinical instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Course Schedule

NURS 70 Role Transition

3 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Prerequisite: Advanced Placement; PT (Psychiatric Technician) or LVN (Licensed Vocational Nurse); ANAT 35 and ANAT 36 or ANAT 10A and ANAT 10B, and MICR 22, or MICR 1, and ENGL 1A or ENGL 1AH, and PSYC 1A or PSYC 1AH, and CHLD 10 or CHLD10H or PSYC 14.

For the LVN (Licensed Vocational Nurse), PT (Psychiatric Technician) or advanced placement student transitioning into the role of the RN (Registered Nurse). Theory and application of concepts of physical assessment, the relationship of homeostatic mechanisms to fluid and electrolyte balance and imbalance utilizing the Betty Neuman Model as the conceptual framework. Course Schedule

Nutrition & Food (NF)

NF 1 Introduction to Nutrition as a Career

1.5 Units (Degree Applicable, CSU) Lecture: 27 Prerequisite: NF 10 or NF 25 or NF 25H

Careers in dietetics, food science, and the food industry. Includes program requirements for nutrition and dietetics majors, career opportunities, professional organizations, ethics, and future directions. Students should be considering a major in nutrition, dietetics, nutrition science, or food science upon transfer. Field trips may be required. Course Schedule

NF 10 Nutrition for Health and Wellness

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Principles of nutrition and their relationship to optimum health and wellness. Emphasizes nutrient needs, food selection, and weight control during the various life stages from prenatal to adult. Student food intake is evaluated several ways including computer diet analysis. This course is intended for non-health science majors. Course Schedule

NF 12 Sports Nutrition

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Principles of nutrition are studied and applied to the athlete and active individuals. Includes macro and micro nutrient intakes, hydration, pre and post event food choices, supplements and ergogenic aids, body composition, weight loss/gain. This course also examines the cultural, sociological, and psychological influences related to nutrition, fitness and athletic achievement. Course Schedule

NF 20 Principles of Food with Laboratory

3 Units (Degree Applicable, CSU, C-ID #: NUTR 120) Lecture: 36 Lab: 54 Prerequisite: Eligibility for ENGL 68 and Eligibility for MATH 50

Application of food science principles with emphasis on ingredient function and interaction, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food. Course Schedule

NF 25 Introduction to Nutrition Science

3 Units (Degree Applicable, CSU, UC, C-ID #: NUTR 110) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Scientific concepts of nutrition related to the function of nutrients and current health issues with emphasis on individual needs. Topics include: functions and sources of nutrients; scientific principles to analyze and evaluate nutrition information; Dietary Guidelines and current nutrition recommendations; digestion, absorption, and metabolism; health, fitness, and disease; and nutrition in the life span. Students will record their diet, analyze its composition, and evaluate its nutrient content. Course Schedule

NF 25H Introduction to Nutrition Science - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: NUTR 110) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Scientific concepts of nutrition related to the function of nutrients and current health issues with emphasis on individual needs. Topics include: functions and sources of nutrients; scientific principles to analyze and evaluate nutrition information; Dietary Guidelines and current nutrition recommendations; digestion, absorption, and metabolism; health, fitness, and disease; and nutrition in the life span. Students will record their diet, analyze its composition, and evaluate its nutrient content. An honors course designed to provide an enriched experience. Students may not receive credit for both NF 25 and NF 25H. Course Schedule

NF 28 Cultural and Ethnic Foods

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisines. Core components: specialized equipment and utensils related to cultures, traditional foods of selected cultures, geographic factors in food availability, global food issues, and sanitation and safety practices. Course Schedule

NF 30 Food Science Technologies

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68 Eligibility for MATH 50

Food chemistry, food processing and technology and how these affect the color, flavor, texture, aroma and quality of foods. Core components: government regulation of processing and labeling, sensory evaluation, scientific research methods, function of water in foods, pH and acidity, food processing technologies, nutritional labeling, packaging; dispersion systems, enzyme reactions, food additives, composition and properties of food.

Course Schedule

NF 40 Healthy American Cuisine

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History, trends, and future of healthy food in the United States. Includes survey of regional American cuisine, components of a healthful diet, impact of dietary choices on the health of the body and the environment, impact of the environment on dietary choice, impact of government regulation on nutrition and food provision, and an overview of American dietary health concerns. Course Schedule

NF 81 Cooking for Your Heart and Health

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 12 Lab: 20 Prerequisite: HRM 52 or NF 20 or NF 10 or NF 25 Advisory: Basic food preparation knowledge, skills, and experience

Principles and techniques of healthful food preparation and investigation of chronic disease prevention through dietary means. Includes laboratory experience in preparation of healthful foods and meals. Basic food preparation knowledge, skills, and experience is advised. Off-campus meetings may be required. Course Schedule

NF 82 Vegetarian Cuisine

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 12 Lab: 20 Prerequisite: HRM 52 or NF 10 or NF 20 or NF 25

Principles and techniques of vegetarian food preparation and investigation of issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals. Basic food preparation knowledge, skills, and experience advised. Off-campus meetings may be required. Course Schedule

NF 91 Work Experience in Nutrition and Dietetics

1-3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 60-225 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog.

Provides students with on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 unpaid clock hours per semester of supervised work in a clinical, community, or long-term nutrition facility is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by faculty. Instructor approval required. Course Schedule

Oceanography (OCEA)

OCEA 10 Introduction to Oceanography 3 Units (Degree Applicable, CSU, UC) Lecture: 54

Geological, chemical, physical, and biological aspects of the Earth's ocean. Plate tectonics, physiography of ocean basins and continental margins, ocean sediment, atmosphere and ocean circulation, waves and tides, coasts, and marine ecology. The companion Oceanography Lab (OCEA 10L) is recommended for students needing a lab to transfer to a four-year college/university. Field trips are required. Course Schedule

OCEA 10H Introduction to Oceanography - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

An honors course designed to provide an enriched experience. Introduces the geological, chemical, physical, and biological aspects of the Earth's ocean. Topics include plate tectonics, physiography of ocean basins and continental margins, ocean sediment, atmosphere and ocean circulation, waves and tides, coasts, and marine ecology. The companion Oceanography Lab (OCEA 10L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. Students may not receive credit for both OCEA 10 and OCEA 10H. Course Schedule

OCEA 10L Introduction to Oceanography Laboratory

1 Unit (Degree Applicable, CSU, UC) Lab: 54 Corequisite: OCEA 10 or OCEA 10H (May have been taken previously)

Laboratory applications and problem-solving in oceanography, including related aspects of geology, meteorology, and marine biology. A handson approach to the marine environment and oceanic processes. Recommended for students needing a lab to transfer to a 4-year college/ university. Course Schedule

Paralegal (PLGL)

PLGL 30 Introduction to Paralegal/Legal

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Federal and state legal systems, role of the paralegals and relationship of paralegals to attorneys, basic civil litigation, legal writing, investigation of claims, and legal ethics for paralegals. Course Schedule

PLGL 31 Legal Analysis and Writing

3 Units (Degree Applicable, CSU) Lecture: 54

Course Schedule

PLGL 31A Legal Analysis and Writing

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: PLGL 30 (May have been taken previously)

Use of a law library for legal research and references; reading and analyzing cases, statutes, constitutions, and secondary authorities; and preparation of case briefs. Course Schedule

PLGL 31B Advanced Legal Analysis and Writing

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: PLGL 30 and PLGL 31A

Preparation of research memoranda, trial briefs, appellate briefs, and other paralegal documents. Westlaw and Lexis-Nexis training. Course Schedule

PLGL 33A Civil Procedure I

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: PLGL 30 (May have been taken previously)

Analysis of the pretrial procedural steps to litigating a cause of action. Examines the concepts of jurisdiction, venue, parties to the action, summons, default judgments, and pleadings. Course Schedule

PLGL 33B Civil Procedure II

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: PLGL 33A

Preparing for litigation. Includes discovery, preparation of law and motion documents, remedies, summary judgments, motions to dismiss, settlements, and arbitration. Course Schedule

PLGL 35A Law Office Procedures

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: PLGL 30 (may have been taken previously)

Examines procedures utilized by a paralegal in a law office. Court systems, preparation and filing of legal papers and court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and guardianships. Course Schedule

PLGL 35B Law Office Technology

3 Units (Degree Applicable) Lecture: 54 Prerequisite: PLGL 30 and PLGL 35A Advisory: CISB 15

Use of the personal computer for special purposes in the law office; includes the drafting of legal documents, document control, e-filing, ediscovery, preparation of billing, law office and case load management, and trial graphics and preparation. Course Schedule

PLGL 36 Paralegal Internship

1 Unit (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75

Designed to provide the student with actual on-the-job experience in the paralegal profession which relates to student's classroom based learning. Placement is not guaranteed but assistance is provided by the paralegal faculty. A minimum of five hours per week of supervised work (minimum 75 paid clock hours or 60 non-paid clock hours per semester) is required. Course Schedule

PLGL 37 Tort Law 3 Units (Degree Applicable, CSU)

Lecture: 54

Analysis of the law of torts, including intentional torts such as assault, battery, false imprisonment, defamation, privacy, trespass, and nuisance; negligence; and strict liability. Examination of insurance defense issues. Course Schedule

PLGL 38 Employment and Ethical Issues in Paralegalism

2 Units (Degree Applicable) Lecture: 36 Prerequisite: PLGL 31A and PLGL 33A and PLGL 35A Corequisite: PLGL 31B and PLGL 33B and PLGL 35B and PLGL 37 and PLGL 39 (All may have been taken previously)

Job search skills including preparation of resumes and cover letters, interviewing, networking, and paralegal and attorney ethics. Course Schedule

PLGL 39 Contract Law

3 Units (Degree Applicable, CSU) Lecture: 54

Laws relating to the formation of contracts. Includes study of the statute of frauds, third-party rights, liability for breach of contract, remedies, discharge, and the Uniform Commercial Code. Course Schedule

PLGL 40 Landlord-Tenant Law

3 Units (Degree Applicable, CSU) Lecture: 54

Landlord-tenant law and creation of legal documentation to represent the landlord-tenant relationship. Examination of the rights and liabilities of the landlord and the tenant. Course Schedule

PLGL 41 Property Law

3 Units (Degree Applicable, CSU) Lecture: 54

Examination of the law relating to real and personal property. Analysis of the various forms of ownership of real property; easements, covenants, conditions, and licenses; constitutional questions; types of real estate deeds; and land use controls. Course Schedule

PLGL 42 Family Law

3 Units (Degree Applicable, CSU) Lecture: 54

Laws relating to marriage, dissolution, nullity, and legal separation. Includes topics of community property, child custody, child support, spousal support, and prenuptial and antenuptial agreements. Course Schedule

PLGL 43 Wills and Trusts

3 Units (Degree Applicable, CSU) Lecture: 54

Legal principles of the laws of wills and trusts, organization and jurisdiction of the California Probate Courts, estate planning and estate taxes.

Course Schedule

PLGL 44 Bankruptcy Law

3 Units (Degree Applicable, CSU) Lecture: 54

Creation, scope, and administrative function of federal bankruptcy proceedings and arrangements. Includes wage earner plans and insolvency proceedings. Course Schedule

PLGL 45 Creditors' Rights

3 Units (Degree Applicable, CSU) Lecture: 54

Creation, perfection, and enforcement of security interests in property. Unsecured creditors and their methods of enforcing rights and obtaining judgments. Course Schedule

PLGL 48 Criminal Law and Procedures

3 Units (Degree Applicable, CSU) Lecture: 54

General principles of criminal law and procedure, elements of crimes against person and property, parties to a crime, defenses to crimes. Analysis of procedural law relating to arrest, search and seizure, rights to counsel and a jury, evidentiary issues, sentencing and appeal. Course Schedule

PLGL 49 Evidence Law

3 Units (Degree Applicable, CSU) Lecture: 54

Evidence law in civil and criminal cases: principles of relevance and competence of evidence; hearsay and character evidence rules; evidentiary privileges; use and authentication of writings. Use of evidence at trial, burdens of proof and presumptions, constitutional issues. Course Schedule

PLGL 50 Comparative Law

3 Units (Degree Applicable) Lecture: 54 Advisory: Eligibility for ENGL 1A

A comparison of the traditions and legal systems of various nations. Specific legal concepts and principles relating to areas of business, substantive law, and procedural law are compared to illustrate and distinguish those systems from the U.S. system. Ethics, language, and management issues are considered with regard to doing business abroad.

Course Schedule

Philosophy (PHIL)

PHIL 3 Introduction to Logic 3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions. Course Schedule

PHIL 3H Introduction to Logic - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 3 and PHIL 3H. Course Schedule

PHIL 5 Introduction to Philosophy

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 100) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Philosophical ideas concerning knowledge, reality, and values. Topics will include the sources and limits of knowledge, and the nature of reality. Other topics may include the nature of self, truth, ethics, religion, science, language, beauty and art, political theory, and mind. Course Schedule

PHIL 5H Introduction to Philosophy - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 100) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Philosophical ideas concerning knowledge, reality, and values. Topics will include the sources and limits of knowledge, and the nature of reality. Other topics may include the nature of self, truth, ethics, religion, science, language, beauty and art, political theory, and mind. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 5 and PHIL 5H. Course Schedule

PHIL 8 Critical Thinking

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Effective use of critical thinking in contemporary living, including recognizing faulty arguments, the usefulness of validity and truth, identifying and avoiding common fallacies in thinking. Course Schedule

PHIL 9 Critical Thinking and Writing

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A or ENGL 1AH

Function and use of formal and informal logic, argument, critical evaluation, and language in written composition. Course Schedule

PHIL 9H Critical Thinking and Writing - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: ENGL 1A or ENGL 1AH and Acceptance into the Honors Program

Function and use of formal and informal logic, argument, critical evaluation, and language in written composition. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 9 and PHIL 9H. Course Schedule

PHIL 12 Introduction to Ethics

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 120) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Concepts of morality and values, representative ethical theories, and applications to moral problems. Course Schedule

PHIL 12H Introduction to Ethics - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 120) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Concepts of morality and values, representative ethical theories, and applications to moral problems. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 12 and PHIL 12H. Course Schedule

PHIL 15 Major World Religions

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History, doctrines, and practices of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following (or more) religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, and Islam including those of East Asia, India, and the Middle East. Off-campus assignments are required. Course Schedule

PHIL 15H Major World Religions - Honors

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Acceptance into the Honors Program

History, doctrines, and practices of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following (or more) religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, Islam including those of East Asia, India, and the Middle East. Off-campus assignments are required. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 15 and PHIL 15H.

Course Schedule

PHIL 20A History of Ancient Philosophy

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 130) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Major philosophers and philosophical ideas from pre-Socratic to medieval times. Emphasis on the development of Greek philosophy from the pre-Socratics through Aristotle and may also include Hellenistic, Roman, Medieval, and non-Western thinkers. Course Schedule

PHIL 20AH History of Ancient Philosophy - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 130) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Major philosophers and philosophical ideas from pre-Socratic to medieval times. Emphasis on the development of Greek philosophy from the pre-Socratics through Aristotle and may also include Hellenistic, Roman, Medieval, and non-Western thinkers. An honors course is designed to provide an enriched experience. Students may not receive credit for both PHIL 20A and PHIL 20AH. Course Schedule

PHIL 20B History of Modern Philosophy

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 140) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Major philosophers and philosophical ideas from the Renaissance to the present, with an emphasis on Western philosophy. Course Schedule

PHIL 20BH History of Modern Philosophy - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: PHIL 140) Lecture: 54 Prerequisite: Acceptance into the Honors Progarm

Major philosophers and philosophical ideas from the Renaissance to the present, with an emphasis on Western philosophy. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 20B and PHIL 20BH. Course Schedule

PHIL 99 Special Projects Philosophy

2 Units (Degree Applicable, CSU) Lecture: 36

Offers students recognition for their academic interests in philosophy and the opportunity to explore the discipline of philosophy to greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration.

Course Schedule

Photography (PHOT)

PHOT 1A Laboratory Studies: Beginning Black and White Photography

1 Unit (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 54 Corequisite: PHOT 10

Extended black-and-white laboratory experiences to improve skills through further instruction and practice, as well as pursue more advanced projects and experiments. Course Schedule

PHOT 1B Laboratory Studies: Advanced Black and White Photography 1 Unit (Degree Applicable)

(May be taken for Pass/No Pass only) Lab: 54 Corequisite: PHOT 11 or PHOT 11A or PHOT 12 or PHOT 17

Extended advanced black and white laboratory experiences. Using medium and large format cameras to improve skills and pursue more advanced photographic printing, processing, and enlarging techniques. Course Schedule

PHOT 1C Laboratory Studies: Studio Photography

1 Unit (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 54 Corequisite: PHOT 11 or PHOT 11A or

Corequisite: PHOT 11 or PHOT 11A or PHOT 11B or PHOT 14 or PHOT 16 or PHOT 17 or PHOT 18 or PHOT 20 or PHOT 26 or PHOT 28 or PHOT 30

Extended studio photography experiences to supplement those available through the regular program. Provides students the opportunity to improve skills through further instruction and practice, as well as pursue more advanced projects and experiments. Course Schedule

PHOT 1D Laboratory Studies: Computer Applications in Photography

1 Unit (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 54 Corequisite: PHOT 9 or PHOT 11B or PHOT 19 or PHOT 24 or PHOT 26

Extended computer laboratory experiences to supplement those available in the regular program. Provides students the opportunity to improve skills through further instruction and practice, as well as pursue more advanced projects and experiments. Course Schedule

PHOT 5 Digital Cameras and Composition

1 Unit (Degree Applicable) Lecture: 18

Use of digital cameras and image editing software to create wellcomposed, quality photographs for use in Graphic Design and other applications. Camera required after first class meeting. Field trip required. Course Schedule

PHOT 9 Digital Image Editing for Photographers

3 Units (Degree Applicable) Lecture: 36 Lab: 54

Software and techniques including digital workflow practices, digital image editing, enhancing and retouching methods commonly used in photography. Course Schedule

PHOT 10 Basic Digital and Film Photography

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 54

The basic mechanical, optical, and chemical principles of photography, including traditional darkroom techniques and digital image systems. Laboratory experience involves problems related to camera and image editing and output techniques. Course Schedule

PHOT 11A Intermediate Photography

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10

Formerly PHOT 11

Professional photography techniques and studio lighting. Includes studio and field assignments related to problems encountered while professionally photographing people and products. Topics include medium and large format film, continuous and strobe lighting. Course Schedule

PHOT 11B Digital Capture Workflow

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10

Formerly PHOT 25

Advanced application of digital capture and workflow using digital singlelens reflex (DSLR) medium and large format digital camera systems and software to produce high-quality digital photographs. Field trips may be required.

Course Schedule

PHOT 12 Photographic Alternatives

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 54 Prerequisite: PHOT 10

Alternative photographic processes. Instant films: Lifts and transfers, specialized lighting, stain toning, emulsion coating, scanography and hand-made camera construction will be applied to produce images not considered common to making photographic prints. Course Schedule

PHOT 14 Commercial Lighting

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: PHOT 10 Advisory: PHOT 11 or PHOT 11A or PHOT 11B

Studio and location lighting techniques for commercial photographic applications. Field trips may be required. **Course Schedule**

PHOT 15 History of Photography

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Survey of the history of photography from early 1800s to the present, introducing various concepts of photo representation and their impact on society. Field trip required. Course Schedule

PHOT 16 Fashion and Editorial Portrait Photography

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 11 or PHOT 11A Advisory: PHOT 11B

Fashion and editorial portrait photography with studio and location lighting techniques, creative concepts, styling, and working with models. Course Schedule

PHOT 17 Photocommunication

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10

Affects that camera controls have on visual communication with photographs. Includes message enhancement using optical and digital controls, depth of field, lenses, lighting, composition, books, black and white vs. color images, and documentary and journalistic styles. Course Schedule

PHOT 18 Portraiture and Wedding Photography

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10 Advisory: (PHOT 11 or PHOT 11A) and PHOT 11B

Professional studio and field techniques for portrait and wedding photography. Off-campus assignment or field trips may be required. **Course Schedule**

PHOT 19 Digital Color Management

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10 and (PHOT 9 or ARTC 100)

Digital color management software and hardware skills, techniques and digital workflow practices commonly used in photography. Course Schedule

PHOT 20 Color Photography

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10

Color principles as they relate to commercial and artistic styles of photography, including lighting, color theory, color management, exaggerated and unique color schemes, and applied color psychology principles.

Course Schedule

PHOT 21 Exploring Color Photography

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 20

Use of color principles as they relate to commercial and artistic styles and innovative use of color applications. Includes lighting and unusual techniques, exaggerated and unique color schemes, light-painting, lighting effects, high dynamic range (HDR) effects, and oversize output. Course Schedule

PHOT 24 Advanced Digital Image Editing for Photographers

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 9 and PHOT 10

Advanced digital image editing, archiving, and retouching for photographers. Course Schedule

PHOT 26 Video for Photographers

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: (PHOT 11 or PHOT 11A) and PHOT 9 Corequisite: PHOT 14 (may have been taken previously)

Teaches advanced photography students how to create moving images for commercial applications using DSLR cameras. Using principles of framing and composition, storyboarding, production, camera, sound, and editing techniques, students will produce a commercial advertising reel representing their work. Field trips may be required. Course Schedule

PHOT 28 Photography Portfolio Development

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: PHOT 10 and (PHOT 11 or PHOT 11A) and PHOT 20 and (PHOT 16 or PHOT 18)

Development of a photography portfolio and marketing materials for use in job application or gallery exhibition purposes. Field trips may be required.

Course Schedule

PHOT 29 Studio Business Practices for Commercial Artists

3 Units (Degree Applicable) Lecture: 54

Studio business practices for commercial artists. Small business operations, pricing services based on the licensing business model, copyright basics, project production, and estimating and invoicing.Field trips may be required. Course Schedule

PHOT 30 Advertising Photography

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: (PHOT 11 or PHOT 11A) and PHOT 20 Advisory: PHOT 14

Overview of the commercial photographic industry including specialties and styles. Field trips may be required. Course Schedule

PHOT 98 Work Experience in Photography

1-3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-225 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: PHOT 10 and (PHOT 11 or PHOT 11A) and PHOT 20

Provides students with on-the-job experience in professional photography and related areas in an approved work site to strengthen and broaden skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester is required for each unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Course Schedule

PHOT 99 Special Projects in Photography

3 Units (Degree Applicable) Lecture: 54 Prerequisite: PHOT 10 and approval by instructor

Offers students the opportunity to explore the discipline in greater depth. Instructor authorization needed prior to enrollment. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. Course Schedule

Physical Science (PHSC)

PHSC 3 Energy Science

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: Eligibility for MATH 100 and Eligibility for ENGL 68

Physical principles underlying the various forms of energy production, the role of energy in modern society, and an understanding of the wider environmental and societal impacts of different energy production technology choices. Course topics will include: fossils fuels, nuclear energy, hydro, wind, solar energy, biofuels, and energy distribution and storage. Field trips required. Course Schedule

PHSC 9 Physical Science

4 Units (Degree Applicable, CSU, UC, C-ID #: PHYS 140) Lecture: 54 Lab: 54 Prerequisite: Eligibility for MATH 71 and Eligibility for ENGL 68

Formerly PHSC 7 and PHSC 7L Designed for the non-science major. A primarily non-mathematical, conceptual approach to basic principles of physics and chemistry and their practical applications. Critical thinking is stressed in such topics as motion, energy, heat, electricity and magnetism, sound and light, radioactivity, atomic theory, chemical reactions, and modern physics. Includes lab. Course Schedule

Physics (PHYS)

PHYS 1 Physics

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: Eligibility for MATH 100

Discovery of concepts of physics by working through guided activities in a workshop style. Topics include light and geometrical optics, electricity and DC circuits, magnetism, linear and rotational motion, forces, momentum, energy, harmonic motion and waves. Course Schedule

PHYS 2AG General Physics

4 Units (Degree Applicable, CSU, UC, C-ID #: PHYS 105) Lecture: 54 Lab: 54 Prerequisite: MATH 150

The basic principles of physics. Includes theory, applications, laboratory, and problem solving in mechanics, heat, fluids, and wave motion. Course Schedule

PHYS 2BG General Physics

4 Units (Degree Applicable, CSU, UC, C-ID #: PHYS 110) Lecture: 54 Lab: 54 Prerequisite: PHYS 2AG or equivalent

Continuation of Physics 2AG. Includes electricity and magnetism (including DC and AC circuits,) geometrical and physical optics, relativity, quantum physics, atomic and nuclear physics. Laboratory includes use of computers to analyze data and simulate electric circuits. Course Schedule

PHYS 4A Engineering Physics

5 Units (Degree Applicable, CSU, UC, C-ID #: PHYS 205) Lecture: 72 Lab: 54 Prerequisite: PHYS 2AG Corequisite: MATH 181 (May have been taken previously)

Calculus-based course. Studies linear and rotational motion, forces, momentum, work, energy, oscillations, gravitation and waves. Includes laboratory experience with significant use of computers for data acquisition and analysis. Course Schedule

PHYS 4B Engineering Physics

5 Units (Degree Applicable, CSU, UC) Lecture: 72 Lab: 54 Prerequisite: PHYS 4A Corequisite: MATH 280 (May have been taken previously)

Calculus-based course covering heat, kinetic theory of gases, thermodynamics, electromagnetism (including DC and AC circuits,) and Maxwell's equations. Laboratory includes significant use of computers for data acquisition, analysis and simulation. Continuation of Physics 4A. Course Schedule

PHYS 4C Engineering Physics

5 Units (Degree Applicable, CSU, UC, C-ID #: PHYS 215) Lecture: 72 Lab: 54 Prerequisite: PHYS 4B

Calculus-based course covering fluids, sound, electromagnetic waves, relativity, and modern physics. Continuation of Physics 4A and 4B. Course Schedule

PHYS 6A General Physics with Calculus

5 Units (Degree Applicable, CSU, UC) Lecture: 72 Lab: 54 Prerequisite: MATH 180

First semester of a two-semester calculus-based physics course for life science majors. Includes statics and dynamics of particles and rigid bodies, Newton's laws of motion, conservation principles, rotational motion, simple harmonic motion, wave motion, heat and sound, introduction to hydrostatics and hydrodynamics with an emphasis on life science topics.

Course Schedule

PHYS 6B General Physics with Calculus

5 Units (Degree Applicable, CSU, UC) Lecture: 71 Lab: 48 Prerequisite: PHYS 6A

Second semester of the calculus based physics course for life science majors. Topics include electricity, magnetism, optics, relativity, atomic and nuclear physics with an emphasis on life science applications. Course Schedule

PHYS 99 Special Projects in Physics

2 Units (Degree Applicable, CSU) Lecture: 36 Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (May have been taken previously)

In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Field trips may be required as part of this course. Course Schedule

Political Science (POLI)

POLI 1 Introduction to American Government and Politics 3 Units (Degree Applicable, CSU, UC, C-ID #: POLS 110) Lecture: 54

Prerequisite: Eligibility for ENGL 1A

Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. Course Schedule

POLI 1H Introduction to American Government and Politics - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: POLS 110) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both POLI 1 and POLI 1H.

Course Schedule

POLI 2 Comparative Politics

3 Units (Degree Applicable, CSU, UC, C-ID #: POLS 130) Lecture: 54 Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Comparative analysis of different political systems, including political institutions, processes, policies, histories and the environments in which they occur. Course Schedule

POLI 5 Political Theory I - Ancient to Contemporary

3 Units (Degree Applicable, CSU, UC, C-ID #: POLS 120) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Ancient to contemporary theories of political institutions, social change, and social dynamics. Course Schedule

POLI 7 Political Theory II - Early Modern to Contemporary

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A Advisory: POLI 5

Major political philosophers and theories from the late nineteenth century to the present. Intended to prepare students majoring in political science for further study in the discipline by providing adequate background preparation in political philosophy. Course Schedule

POLI 9 Introduction to International Relations

3 Units (Degree Applicable, CSU, UC, C-ID #: POLS 140) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Historical and political background of world politics and core international relations theories and concepts. Attention is given to the historical development of world politics, to fundamental theories and concepts in International Relations, and to an examination of international, national, sub-national, and transnational actors and their institutions, interactions, and processes. Course Schedule

POLI 10 Environmental Politics

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 1A and (POLI 1 or POLI 1H)

Global environmental problems including an analysis of political theories and comparative policies in the emerging field of environmental politics. Course Schedule

POLI 25 Latino Politics in the United States

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Latino (the group identified as Hispanic by the U.S. Census) political thought and action and how it is influenced and shaped by American institutions such as national, state, and local governments, federal and state constitutions, and United States Supreme Court decisions. Course Schedule

POLI 35 African American Politics

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Methods and strategies employed by African Americans in their quest to gain equal access and participation in American institutions. Course Schedule

Psychology (PSYC)

PSYC 1A Introduction to Psychology

3 Units (Degree Applicable, CSU, UC, C-ID #: PSY 110) Lecture: 54 Prerequisite: Eligibility for ENGL 1A Advisory: Eligibility for READ 100 or completion of AMLA 33R

Psychological approaches to the study of behavior and mental processes. Topics include the history of psychology, psychological research methods, biological psychology, sensation and perception, consciousness, learning, memory, cognition, intelligence, and language, lifespan development, motivation and emotion, applied psychology (e.g., gender and sexuality and stress and health), social psychology, personality, psychological disorders, and psychological treatment. Course Schedule

PSYC 1AH Introduction to Psychology - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: PSY 110) Lecture: 54

Prerequisite: Acceptance into the Honors Program Advisory: Eligibility for READ 100 or completion of AMLA 33R

Psychological approaches to the study of behavior and mental processes. Topics include the history of psychology, psychological research methods, biological psychology, sensation and perception, consciousness, learning, memory, cognition, intelligence, and language, lifespan development, motivation and emotion, applied psychology (e.g., gender and sexuality and stress and health), social psychology, personality, psychological disorders, and psychological treatment. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 1A and PSYC 1AH. Course Schedule

PSYC 1B Biological Psychology

3 Units (Degree Applicable, CSU, UC, C-ID #: PSY 150) Lecture: 54 Prerequisite: PSYC 1A or PSYC 1AH Advisory: Eligibility for ENGL 1A

Biological mechanisms of behavior. Includes evolution and genetics with emphasis on neuronal and synaptic transmission. Develops a conceptual framework and awareness of the scientific method. Stresses specific methods of investigation for the discipline. Course Schedule

PSYC 3 Introduction to Research Methods in Psychology

4 Units (Degree Applicable, CSU, UC, C-ID #: PSY 205B) Lecture: 54 Lab: 54 Prerequisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or

MATH 110H

Research methods in psychology. Includes systematic observation, research design, survey development, execution and analysis of experimental and other research methods, and American Psychological Association (APA) publication style writing. Course Schedule

PSYC 3H Introduction to Research Methods in Psychology - Honors

4 Units (Degree Applicable, CSU, C-ID #: PSY 205B)

Lecture: 54 Lab: 54

Prerequisite: Acceptance into the honors program and (PSYC 1A or PSYC 1AH) and (PSYC 10 or MATH 110 or MATH 110H)

Research methods in psychology. Includes systematic observation, research design, survey development, execution and analysis of experimental and other research methods, and American Psychological Association (APA) publication writing style. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 3 and PSYC 3H. Course Schedule

PSYC 5 Psychology of Reasoning and Problem Solving

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

The components involved in problem solving and reasoning from a psychological perspective. These components assess many facets of the critical thinking process, including perception, learning (classical and operant conditioning, behavior modification, observation, cognitive models), memory, logical fallacies, heuristics, cognitive distortions, decision-making processes, argument, and judgment. This course also contains a practical application element involving systematic introspection and analysis of one's cognitive processes. Course Schedule

PSYC 10 Statistics for the Behavioral Sciences

4 Units (Degree Applicable, CSU, UC) Lecture: 54 Lab: 54 Prerequisite: (PSYC 1A or SOC 1) and eligibility for MATH 110

Statistical principles of the behavioral sciences emphasizing research design, scales of measurement, distributions, graphing, descriptive statistics, measures of central tendency, measures of variability, z-test, independent and dependent t-tests, inferential statistics, confidence intervals, linear correlations and regression, and analysis of variance, including multivariate factorial designs and chi square analyses. Statistical analyses through the use of computerized statistical packages are interpreted through lab experience. Course Schedule

PSYC 14 Developmental Psychology

3 Units (Degree Applicable, CSU, UC, C-ID #: PSY 180) Lecture: 54 Advisory: Eligibility for ENGL 1A

Psychological principles of human development across the lifespan, from birth to death. This course does not fulfill the Title 22 requirements for Child Development majors. Course Schedule

PSYC 14H Developmental Psychology - Honors

3 Units (Degree Applicable, CSU, C-ID #: PSY 180) Lecture: 54 Prerequisite: Acceptance into the Honors program

Psychological principles of human development across the lifespan, from birth to death. This course does not fulfill the Title 22 requirements for Child Development majors. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 14 and PSYC 14H.

Course Schedule

PSYC 15 Introduction to Child Psychology

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Examines the psychology of the child from conception through adolescence. Emphasis on physical, cognitive, and psychosocial development as it pertains to the child's psychological experiences. Includes psychological disorders and therapies specific to children and adolescents. This course does not fulfill Title 22 requirement for child development majors. Course Schedule

PSYC 17 Introduction to Human Services

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: PSYC 1A or PSYC 1AH or SOC 1 or SOC 1H

History, philosophy, and development of human services in America. Explores careers in human services, self-exploration in matching personal and professional interests to entry levels of human services employment. Course Schedule

PSYC 19 Abnormal Psychology

3 Units (Degree Applicable, CSU, UC, C-ID #: PSY 120) Lecture: 54 Prerequisite: PSYC 1A or PSYC 1AH

Students will be familiarized with psychological, biological, and sociocultural approaches to understanding abnormal behavior, including DSM-5 psychiatric disorders such as anxiety, depressive, and psychotic disorders and explore psychological principles underlying psychopathology. Course Schedule

PSYC 20 Introduction to Social Psychology

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Individual human behavior in relation to the social behavior and social influences on behavior. Topics include: aggression, prejudice and stereotypes, interpersonal attraction, attitudes and attitude change, conformity and obedience, group phenomena, gender roles, cultural norms, person perception, and social cognition and perception. Course Schedule

PSYC 25 The Psychology of Women

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: PSYC 1A (taken prior or concurrently), and ENGL 1A (taken prior or concurrently)

A biopsychosocial analysis of the role of gender in the experience of women. Psychological, sociocultural and biological factors, and current scholarly research relating to women's gender identity, development, socialization, motivation, mental health, and relationships. Course Schedule

PSYC 26 Psychology of Sexuality

3 Units (Degree Applicable, CSU, UC, C-ID #: PSY 130) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Explores the factors involved in establishing and maintaining intimate sexual relationships. The focus of the course is on the findings of social psychologists concerning sexuality and love relationships in our culture. Course Schedule

PSYC 33 Psychology for Effective Living

3 Units (Degree Applicable, CSU, C-ID #: PSY 115) Lecture: 54

Emphasis on comprehension and application of psychological principles to daily life and personal growth. Topics include interpersonal relationships, sexuality, self and social influence, positive psychology, career and work, marriage and intimate relationships, parenting, aging, physical health, and other circumstances encountered in the life cycle. Considers personality development, psychological disorders, and therapeutic approaches, while emphasizing the importance of multicultural sensitivity and scientific research in the aforementioned topics.

Course Schedule

PSYC 99 Special Projects in Psychology

1-3 Units (Degree Applicable, CSU) Lecture: 18-54 Prerequisite: (PSYC 1A or PSYC 1AH) and (Eligibility for ENGL 1A or ENGL 1AH) Advisory: READ 100

Offers selected students recognition for their academic interest in psychology and the opportunity to explore the discipline of psychology in greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration.

Course Schedule

Public Health (PUBH)

PUBH 22 Introduction to Epidemiology 3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: (PUBH 24 or BIOL 24) and (MATH 110 or MATH 110H)

Epidemiology and biostatistics as applied to public health problems. Examines the distribution and determinants of disease, health conditions, and events as they occur in populations. Topics covered include measures of disease frequency, study design, measures of association, causality, epidemiologic investigation, and application of study results in shaping policy effecting health services, screening, genetics, and public and environmental health. Course Schedule

PUBH 24 Introduction to Public Health

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Formerly BIOL 24

Organization and function of public health including the philosophy, purpose, history, organization, function, tools, activities, and outcomes of public health practice at the global, national, state, and community levels. Instruction prepares students to identify and assess important national and international problems and ethical issues facing public health today. Course Schedule

PUBH 26 Introduction to Global Public Health

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: (PUBH 24 or BIOL 24) and (MATH 110 or MATH 110H or PSYC 10) Advisory: Eligibility for READ 100 or AMLA 33R

Health and disease in terms of global processes and socioeconomic influences including poverty, migration, urbanization, environmental change, culture and behavior, and economic interdependence. Major communicable and noncommunicable diseases will be considered as well as health inequities and the impact of global health on public health policy.

Course Schedule

PUBH 27 Public Health and the Environment

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: PUBH 24 or BIOL 24

Environmental Health is the field that investigates the biological, chemical, and physical influences on human health. The course focuses on issues of environmental exposures, resulting health effects, and appropriate controls for these hazards. Emphasis is placed on food safety, pests and pesticides, air quality, global climate change, water quality, wastewater, solid and hazardous wastes, industrial hygiene, and radiation.

Course Schedule

PUBH 28 Public Health and Bioethics

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: PUBH 24 or BIOL 24

Ethical theories and current ethical issues in public health and health policy including resource allocation, the use of summary measures of health, the right to health care, patient rights and consent, and conflicts between autonomy and health promotion efforts. Course Schedule

PUBH 29 Public Health Microbiology

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: (PUBH 24 or BIOL 24) and (MICR 1 or MICR 22)

Diversity and properties of microbial agents that impact public health. Environmental factors that affect the occurrence, distribution, and impact of these agents on the community and the world, such as water quality and food production.

Course Schedule

PUBH 30 Principles of Public Health and Infectious Disease Epidemiology

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: (MICR 1 or MICR 22) and (PUBH 24 or BIOL 24) and (MATH 110 or MATH 110H) Advisory: Eligibility for READ 100 or Completion of AMLA 33R

Major concepts and principles in public health and epidemiology with an emphasis on infectious diseases. The role of epidemiology in the formulation of public health policy and its impact on clinical decisions through evidence-based medicine is explored. Course Schedule

Radio & Television (R-TV)

R-TV 01 Introduction to Electronic Media 3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

History, structure, function, economics, content and evolution of radio, television, film, and the internet, including traditional and mature formats as well as emerging electronic media delivery systems. The social, political, regulatory, ethical and occupational impact of the electronic media will also be studied. Course Schedule

R-TV 02 On-Air Personality Development

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)

Developing a broadcast voice, style and understanding of the business for all areas of the industry, including disc jockey, newscaster and voice over artist. Developing content for on-air shows. Review the basics of the production studio and its components. Course Schedule

R-TV 03 Sportscasting and Reporting

1.5 Units (Degree Applicable)Lecture: 27Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)

Sportscasting, interviewing, field reporting and play-by-play for radio and television. Legalities and ethics of covering sports, and how to work with professional sports teams and equipment technicians. Practical experience will be provided through coverage of Mt. SAC's athletic teams. Course Schedule

R-TV 04 Broadcast News Field Reporting

3 Units (Degree Applicable)

Lecture: 54 Corequisite: R-TV 01 and R-TV 05 and R-TV 11A (May have been taken previously)

Techniques used to research and cover a variety of news events including working with police and other emergency personnel, interviewing techniques and story developments. Emphasis will be placed on legal and ethical issues concerning news coverage. Course Schedule

R-TV 05 Radio-TV Newswriting

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: R-TV 01 (May have been taken previously)

Writing, editing and reporting radio and TV news, utilizing the Associated Press Wire Service. Rewriting news wire copy as well as create stories from interviews and from covering news events, including the incorporation and selection of sound bites from actualities. Emphasis on factual and concise content and the ability to work under deadline. Course Schedule

R-TV 06 Broadcast Traffic Reporting

1.5 Units (Degree Applicable) Lecture: 27 Corequisite: R-TV 01 (May have been taken previously)

Preparation and delivery of traffic reports for radio and television, including anchored and airborne reports. Includes history and development of techniques involved in radio and television traffic reporting through lecture and hands-on practice. Interpretation and reading of police codes as they relate to traffic, accidents, and emergency situations including broadcast rules and liabilities as they apply to traffic reporting.

Course Schedule

R-TV 07A Beginning Commercial Voice-Overs

3 Units (Degree Applicable) Lecture: 54 Advisory: R-TV 01

Development of voices for radio and television commercials, character voices, narrations, and animation. Also covers auditioning, working with agents and agencies, and understanding voice-over contracts. Course Schedule

R-TV 09 Broadcast Sales and Promotion

3 Units (Degree Applicable) Lecture: 54

Strategies and legalities for creating commercial campaigns for radio and television including demographic targeting, marketing strategies, and copywriting. Includes creation of contests and promotional campaigns. Course Schedule

R-TV 10 Radio Programming and Producer Techniques

3 Units (Degree Applicable) Lecture: 54

Programming, management, and producing techniques for various radio station formats such as music, news, talk, and sports. Course Schedule

R-TV 11A Beginning Radio Production

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: R-TV 01 (May have been taken previously)

Operation of standard radio production equipment for both tape-based and digital production utilizing ProTools technology. Production skills concentrate on the use of voice, music and sound effects as applied to a variety of broadcasting elements. Course Schedule

R-TV 11B Advanced Radio Production

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: R-TV 11A

Techniques in non-linear recording, editing and mixing using Pro Tools technology as these skills apply to a variety of applications in the broadcasting industry. Develop mastery of the concepts and skills required to work in a professional radio studio environment. Course Schedule

R-TV 14 Media Aesthetics

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Media aesthetics for film, television, and other filmed entertainment. Examines the broad subject areas of form, content, aesthetics, meaning, cinematic history, and culture. Explores the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology, and critical analysis. Stresses critical, theoretical and practical analysis. Material is presented from a producer and artist point of view and is intended for those pursuing a career in film, television, and other electronic visual media. Course Schedule

R-TV 15 Broadcast Law and Business Practices

3 Units (Degree Applicable) Lecture: 54 Corequisite: R-TV 01 (May have been taken previously)

The broadcasting industry as a business. Legal and Federal Communications Commission (FCC) regulatory issues in broadcasting and developing media, as well as unions, contracts, negotiations, residuals, and mergers. Course Schedule

R-TV 17 Internet Radio and Podcasting

3 Units (Degree Applicable) Lecture: 54 Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)

Internet broadcasting and podcasting including programming, announcing, promotions, and legal and copyright issues through the use of an actual Internet radio station. Course Schedule

R-TV 18 Introduction to Screenwriting

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Screenwriting for television and motion picture production. Includes characterization, visualization, structure and form. Course Schedule

R-TV 19A Beginning Video Production

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36 Lab: 54 Advisory: R-TV 14

Video production using studio, remote multi-camera, and film-style techniques. Introduction to theory and practice in lighting, audio recording for video, basic directing and producing, editing software, and production of a short narrative-form video. Course Schedule

R-TV 19B Advanced Video Production

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54 Prerequisite: R-TV 19A

Video production techniques emphasizing narrative storytelling, film-style aesthetics and production. Course Schedule

R-TV 20 Television News Production

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: R-TV 05 or R-TV 19A

TV newscast production using writing, announcing, production, equipment, direction, graphics, and editing skills both in and out of the studio. Course Schedule

R-TV 21 Remote Multicamera Production

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: R-TV 19A

Remote video production using both multi-camera and single camera techniques. Topics include video engineering, directing, and remote production truck setup. Course Schedule

R-TV 22 Editing for Film and Television

3 Units (Degree Applicable, CSU) Lecture: 54

Aesthetics, visual and aural storytelling, and use of editing software for film and television. Previous production experience recommended. Course Schedule

R-TV 23 Reality Show Production

3 Units (Degree Applicable) Lecture: 36 Lab: 54 Prerequisite: R-TV 19A

Types and production of reality show television programs. Authoring and pitching of reality show concepts. Instruction in specific equipment skills in lighting, multicamera shooting, editing and related skills. Includes production of a reality show. Course Schedule

R-TV 24 American Film History

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

History of American film and filmmakers from 1895 to the present. Development and changes are examined in relation to historical, sociological, economic, political, cultural, artistic and technological contexts.

Course Schedule

R-TV 25 World Cinema

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Cinema history using a global perspective, following the growth of cinema in key countries from their beginnings until the present day. Both national and multinational co-productions are explored. Provides critical methodology and practical tools for examining and interpreting international film movements and genres. Course Schedule

R-TV 28 Introduction to Writing for Electronic Media

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Conceptualize, structure and write dramatic and non-dramatic scripts for cinema, television and new media. Course Schedule

R-TV 29 Introduction to Audio Production for Film and Television 3 Units (Degree Applicable, CSU)

Lecture: 54

Theory and practice of audio production for radio, television, film and digital recording applications. Course Schedule

R-TV 31 History of Radio DJs 3 Units (Degree Applicable) Lecture: 54

Traces the history of music radio through study of the most influential disc jockeys in broadcasting history. Course Schedule

R-TV 32 Social Media in Broadcasting

3 Units (Degree Applicable) Lecture: 54 Prerequisite: R-TV 17

Creating compelling online content and properly using social media to engage and grow a radio, television (TV), or podcast audience on the Internet. Emphasis on proper management of social media presence through branding and how broadcast companies and performers use social media to compete in the new media marketplace. Course Schedule

R-TV 35 Pop Culture in the Media

3 Units (Degree Applicable) Lecture: 54

Examines American Pop Culture and its various forms as it applies to the 1920s through the 1990s through the major fads and follies of those decades as reflected in and influenced by radio, TV, film. Course Schedule

R-TV 41 Video Engineering

3 Units (Degree Applicable) Lecture: 36 Lab: 54

Video engineering for television, video assist for film, and other electronic media. Covers the role of the video engineer in a variety of settings, signal recording and distribution, wiring video systems for remote and studio productions, troubleshooting, and working with live productions. Course Schedule

R-TV 96A Campus Radio Station Lab: Studio Procedures and Equipment Operations

1-2 Units (Degree Applicable) Lab: 54-108 Prerequisite: R-TV 01 and R-TV 11A

Operation of the college radio stations. Activities focus on studio equipment operation, station procedures, and Federal Communications Commission (FCC) rules and regulations. Course Schedule

R-TV 96B Campus Radio Station Lab: Disc Jockey & News Anchor/ Reporter Skills

1-2 Units (Degree Applicable) Lab: 54-108 Prerequisite: R-TV 96A

Participation in the college radio stations. Activities focus on developing Disc Jockey, News Anchor, and News Reporter skills. Course Schedule

R-TV 96C Campus Radio Station Lab: Hosting and Management Skills 1-2 Units (Degree Applicable)

Lab: 54-108 Prerequisite: R-TV 96B

Participation in the college radio stations including individual show creation and execution as well as management skills. Course Schedule

R-TV 97A Radio/Entertainment Industry Seminar

1 Unit (Degree Applicable) Lecture: 18 Prerequisite: R-TV 01 and R-TV 11A and R-TV 15 and R-TV 96A Corequisite: R-TV 97B

Discussion and evaluation of professionalism and problem-solving techniques related to on-the-job experience in the Radio Broadcasting industry through an off-campus internship. Course Schedule

R-TV 97B Radio/Entertainment Industry Work Experience

1 Unit (Degree Applicable) Lab: 75 Prerequisite: R-TV 01 and R-TV 11A and R-TV 15 and R-TV 96A Corequisite: R-TV 97A

On-the-job experience in the radio or entertainment industry in order to strengthen and broaden skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Course Schedule

R-TV 99 Special Projects in Broadcasting and Entertainment Industry 3 Units (Degree Applicable)

Lecture: 54

Prerequisite: R-TV 01 and completion of any six R-TV course units.

Offers students the opportunity to explore the discipline in greater depth. Instructor authorization needed prior to enrollment. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to make sure that proficiencies are enhanced. Course Schedule

R-TV 100 Work Experience in Film and TV

1-3 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lab: 75-225

Prerequisite: Completion of 12 units of R-TV courses, from among the following: R-TV 18, R-TV 19A, R-TV 19B, R-TV 20, R-TV 21, R-TV 22, R-TV 23, and R-TV 29.Compliance with Work Experience regulations as designated in the College Catalog.

On-the-job experience in the film or television (TV) industry, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each unit of credit. Course Schedule

R-TV 101 Work Experience in Broadcast Entertainment

1-2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-150

Prerequisite: Completion of R-TV 01 and R-TV 97A and R-TV 97B and any three other R-TV units. Compliance with Work Experience regulations as designated in the College Catalog.

On-the-job experience at an approved work site in the broadcast or entertainment industries. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each credit. Course Schedule

Radiologic Technology (RAD)

RAD 1A Clinical Experience 1A

5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 256 Prerequisite: ANAT 10A and ANAT 10B and RAD 50 and RAD 91 Corequisite: RAD 61A and RAD 61B and RAD 61C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on upper and lower limbs, shoulder girdle, pelvis, chest, and abdomen. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards. Course Schedule

RAD 1B Clinical Experience 1B

3 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 150 Prerequisite: RAD 1A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on upper and lower limbs, shoulder girdle, pelvis, chest, and abdomen. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards. Course Schedule

RAD 2A Clinical Experience 2A

5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 256 Prerequisite: RAD 1B Corequisite: RAD 62A and RAD 62B and RAD 62C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on cervical spine, cross-table trauma cervical spine, thoracic spine, lumbar spine, ribs, paranasal sinuses, esophagus, upper gastrointestinal, small bowel and barium enema. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards. Course Schedule

RAD 2B Clinical Experience 2B

3 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 144 Prerequisite: RAD 2A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on cervical spine, cross-table trauma cervical spine, thoracic spine, lumbar spine, ribs, paranasal sinuses, esophagus, upper gastrointestinal, small bowel and barium enema. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards. Course Schedule

RAD 3A Clinical Experience 3A

7.5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 384 Prerequisite: RAD 2B Corequisite: RAD 63

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards. Course Schedule

RAD 3B Clinical Experience 3B

3 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 150 Prerequisite: RAD 3A

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards. Course Schedule

RAD 3C Clinical Experience 3C

7.5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 384 Prerequisite: RAD 3B

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on special and elective procedures. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Designed to meet The Joint Review Committee on Education in Radiologic Technology (JRCERT) accreditation standards.

Course Schedule

RAD 4 Clinical Experience 4

4.5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 239 Prerequisite: RAD 3C

Clinical experience in the radiology department of affiliated hospitals under the supervision of a licensed radiologic technologist. Emphasis on developing imaging and/or therapeutic technologies. Health physical, background check, drug test, and CPR certification is required. Intended for students enrolled in Radiologic Technology Program. Course Schedule RAD 7A Computed Tomography Clinical Experience 7A 2 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lab: 108 Corequisite: RAD 70

Computed Tomography (CT) clinical experience in the radiology department of affiliated clinical sites under the supervision of a registered Radiologic Technologist, supervisor, or physician. Emphasis on Computed Tomography procedures of the head, neck, spine, musculoskeletal, chest, abdomen, pelvis, and special procedures. Image display, post processing, and quality assurance is included. Intended for students enrolled in Computed Tomography Certificate Program. Health physical, background check, drug test, and CPR certification is required. Prior to enrolling in this course, student must possess a valid California Certified Radiologic Technologist (CRT) license and be certified and registered by the American Registry of Radiologic Technologists (ARRT) in one of the following supporting disciplines: Radiologic Technology, Nuclear Medicine or Nuclear Medicine Technology Certification Board (NMTCB) certification, or Radiation Therapy. Course Schedule

RAD 7B Computed Tomography Clinical Experience 7B

7 Units (Not Degree Applicable) (May be taken for Pass/No Pass only)

Prerequisite: RAD 7A and RAD 70 Corequisite: RAD 71 and RAD 72

Continued Computed Tomography (CT) clinical experience in the radiology department of affiliated clinical sites under the supervision of a registered Radiologic Technologist, supervisor or physician. Emphasis on Computed Tomography procedures of the head, neck, spine, musculoskeletal, chest, abdomen, pelvis, and special procedures. Image display, post processing and quality assurance is included. Intended for students enrolled in Computed Tomography Certificate Program. Health physical, background check, drug test, and CPR certification is required. Prior to enrolling in this course, student must possess a valid California Certified Radiologic Technologist (CRT) license and be certified and registered by the American Registry of Radiologic Technologists (ARRT) in one of the following supporting disciplines: Radiologic Technology, Nuclear Medicine or Nuclear Medicine Technology Certification Board (NMTCB), or Radiation Therapy. Course Schedule

RAD 30 Radiographic Pathology

1.5 Units (Degree Applicable) Lecture: 24 Corequisite: RAD 3A

Concepts related to disease and etiological considerations. Emphasis on radiographic appearance of disease and impact on exposure factor selection. Course Schedule

RAD 31 Fluoroscopy and Radiobiology 4 Units (Degree Applicable)

Lecture: 72 Prerequisite: RAD 62A Corequisite: RAD 3C

Radiobiology, radiation physics, exposure reduction, fluoroscopy equipment and operation, image evaluation, quality control, and patient considerations. Intended for students enrolled in Radiologic Technology Program. Course Schedule

Jourse Schedule

RAD 32 Digital Imaging in Radiology

2 Units (Degree Applicable) Lecture: 36 Prerequisite: RAD 61A

Radiographic digital imaging system components, principles, operation, quality assurance, and maintenance. Factors impacting image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems.Intended for students enrolled in Radiologic Technology program.

Course Schedule

RAD 40 Mammography Principles and Procedures

3 Units (Not Degree Applicable) Lecture: 54 Corequisite: RAD 3C

Advanced course designed to provide students with the necessary skills to become California state certified in Mammographic Radiologic Technology and meet the Mammography Quality Standards Act guidelines. Includes coursework in breast anatomy/physiology, patient care, mammography procedures, positioning, compression, interventional procedures, imaging of patients with breast implants, pathology, image evaluation, instrumentation, technique, physics, and quality assurance/ quality control. Enrollment limited to current Radiologic Technology program students.

Course Schedule

RAD 50 Introduction to Radiologic Science and Health Care 3 Units (Degree Applicable, CSU) Lecture: 54

Foundations of radiography and the practitioner's role in the healthcare delivery system. Principles, practices and policies of healthcare organizations are examined and discussed in addition to the professional responsibilities of the radiographer. Includes radiation safety and a foundation in ethics and law related to the practice of medical imaging. Intended for students enrolled in Radiologic Technology Program. Course Schedule

RAD 61A Theory of Radiologic Technology

4 Units (Degree Applicable, CSU) Lecture: 72 Prerequisite: RAD 50 and PHYS 1 Corequisite: RAD 1A and RAD 61B and RAD 61C

Structure of the atom, radiation, radiographic equipment, exposure factor formulation, technique charts, and radiation protection. Intended for students enrolled in Radiologic Technology Program. Course Schedule

RAD 61B Radiographic Procedures I

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: ANAT 10A and ANAT 10BB and MEDI 90 and RAD 50 and RAD 91 Corequisite: RAD 1A and RAD 61A and RAD 61C

Knowledge base necessary to perform standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the upper and lower limbs, chest and abdomen. Intended for students enrolled in Radiologic Technology Program. Course Schedule

RAD 61C Radiographic Procedures I Laboratory

1.5 Units (Degree Applicable, CSU) Lecture: 18 Lab: 18

Practical application of standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the upper and lower limbs, chest and abdomen. Intended for students enrolled in Radiologic Technology Program.

Course Schedule

RAD 62A Theory of Radiologic Technology

4 Units (Degree Applicable, CSU) Lecture: 72 Prerequisite: RAD 61A and RAD 1B Corequisite: RAD 2A and RAD 62B and RAD 62C

Areas of X-ray production and interaction with matter, principles of imaging, film screen processing, imaging equipment, and radiation protection. Intended for students enrolled in Radiologic Technology Program.

Course Schedule

RAD 62B Radiographic Procedures II

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: RAD 61A and RAD 61B and RAD 61C Corequisite: RAD 2A and RAD 62A and RAD 62C

Knowledge base necessary to perform standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the vertebral column, bony thorax, cranium, gastrointestinal (GI) system and genitourinary (GU) system. Intended for students enrolled in Radiologic Technology Program.

Course Schedule

RAD 62C Radiographic Procedures II Laboratory

1.5 Units (Degree Applicable, CSU) Lecture: 18 Lab: 18 Prerequisite: RAD 61A and RAD 61B and RAD 61C Corequisite: RAD 2A and RAD 62A and RAD 62B

Practical application of standard imaging procedures and special studies. Consideration is given to the evaluation of optimal images. Focus on anatomy and positioning of the vertebral column, bony thorax, cranium, gastrointestinal (GI) system and genitourinary (GU) system. Intended for students enrolled in Radiologic Technology Program. Course Schedule

RAD 63 Theory of Radiologic Technology

4 Units (Degree Applicable, CSU) Lecture: 72 Corequisite: RAD 3A

Special radiographic studies, advanced modalities, radiation protection, contrast media use and quality assurance processes relative to filmbased radiology. Intended for students enrolled in Radiologic Technology Program. Course Schedule

RAD 64 Theory of Radiologic Technology

4 Units (Degree Applicable, CSU) Lecture: 72 Corequisite: RAD 3C

Analytical review of the radiologic technology core curriculum. Serves as preparation for state certification and national registry exams. Intended for students enrolled in Radiologic Technology Program. Course Schedule

RAD 70 Computed Tomography Sectional Anatomy and Pathology

2 Units (Not Degree Applicable) Lecture: 36 Corequisite: RAD 7A

Detailed study of gross anatomical structures will be conducted systematically for location, relationship to other structures, function, and common pathologic conditions. Anatomical structures are located and identified in axial (transverse), sagittal, coronal, and orthogonal (oblique) planes with a focus on the characteristic appearance of each anatomical structure and pathology as it appears on Computed Tomography (CT) images.

Course Schedule

RAD 71 Computed Tomography Procedures and Patient Care 3 Units (Not Degree Applicable)

Lecture: 54 Prerequisite: RAD 70 Corequisite: RAD 72 and RAD 7B

Procedures for Computed Tomography (CT) imaging of adults and pediatric patients. Procedures include, but are not limited to, indications for procedure, patient care and safety, positioning, contrast media usage, patient assessment, scout image, selectable scan parameters, and archiving of the images. CT procedures will be taught for differentiation of specific structures, patient symptomology, and pathology. CT images studied will be reviewed for quality, anatomy, and pathology. Course Schedule

RAD 72 Computed Tomography Physics and Instrumentation

3 Units (Not Degree Applicable) Lecture: 54 Corequisite: RAD 71 and RAD 7B

Physical principles and instrumentation involved in Computed Tomography (CT). Physics topics covered include x-radiation in forming the CT image, CT beam attenuation, linear attenuation coefficients, tissue characteristics, and Hounsfield numbers application. CT system and operations, the CT process, image quality, and radiation protection practices for the CT patient will be covered. Course Schedule

RAD 91 Patient Care in Radiologic Sciences

3 Units (Degree Applicable, CSU) Lecture: 45 Lab: 15

Concepts of optimal patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures are described, pharmacology, as well as infection control procedures using standard precautions. The role of the radiographer in patient education is identified. Intended for students enrolled in Radiologic Technology Program. Course Schedule

Reading (READ)

READ 70 Approaches to Reading

3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54

Introduction to comprehension and vocabulary strategies, and selfreflection on reading. Course Schedule

READ 80 Exploring Reading Strategies

3 Units (Not Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 54 Prerequisite: READ 70 or satisfactory score on reading placement test

Reading comprehension, vocabulary strategies, and self-awareness of reading capabilities using narrative and expository text. Course Schedule

READ 90 Reading College Texts

3 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: READ 80 or satisfactory score on reading placement test

Effective college textbook reading with an emphasis on vocabulary and cross disciplinary textbook analysis and comprehension. Course Schedule

READ 100 Analysis and Critical Reading

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: READ 90 or satisfactory score on reading placement test

Critical reading course focusing on the effective use of critical thinking in a cross-disciplinary framework. Emphasis on the development of critical reading skills of interpretation, analysis, and evaluation of a variety of academic texts across disciplines. Course Schedule

Respiratory Therapy (RESD)

RESD 50 Theory and Principles of Respiratory Therapy

2 Units (Degree Applicable, CSU)

Lecture: 36

Prerequisite: ANAT 10A and ANAT 10B and CHEM 10 and MATH 51 and MEDI 90 $\,$

Corequisite: RESD 51A and RESD 52

History of respiratory care, patient confidentiality, patient safety, principles of infection control, bloodborne and airborne pathogens, ethical and legal implications of practice, professionalism, physical principles of respiratory care, and computer applications in respiratory care.

Course Schedule

RESD 51A Respiratory Therapy Science

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Corequisite: RESD 50 and RESD 52

Principles of respiratory therapy equipment. Emphasis placed on methods of administration of therapy and application of specialized equipment in the clinical setting. Also includes respiratory physiology and oxygen transport. Course Schedule

RESD 51B Respiratory Therapy Science

4 Units (Degree Applicable, CSU) Lecture: 54 Lab: 54 Prerequisite: RESD 50 and RESD 51A Corequisite: RESD 53 and RESD 60

Respiratory therapy equipment will be presented. Emphasis is placed on the methods of administration of therapy and the application of specialized equipment in the acute care setting and the application of mechanical ventilation in the clinical setting. Course Schedule

RESD 52 Pulmonary Anatomy and Physiology

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: ANAT 10A and ANAT 10B and CHEM 10 and MATH 51 and MEDI 90 Corequisite: RESD 50 and RESD 51A

Anatomy and physiology of the cardiopulmonary, neurological, and renal systems emphasizing clinical application of physiological concepts. Course Schedule

RESD 53 Cardiopulmonary Pathophysiology

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: RESD 51B

Anatomic alterations of the lungs, etiology, overview of the cardiopulmonary clinical manifestations, and general management of commonly encountered cardiopulmonary diseases. Course Schedule

RESD 55 Adult Respiratory Intensive Care

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: RESD 56B

Provides an in-depth approach to the current modalities and monitoring tools of respiratory care. Emphasis is on the adult patient who is critically ill with primary and/or secondary cardiopulmonary failure. Course Schedule

RESD 56A Techniques of Respiratory Therapy

2.5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 143 Prerequisite: RESD 51B Corequisite: RESD 57B

Clinical practice in intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first academic sessions of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the general management and treatment of adult and pediatric patients requiring respiratory care are introduced. Course Schedule

RESD 56B Techniques of Respiratory Therapy

6 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 324 Prerequisite: RESD 56A Corequisite: RESD 55 and RESD 58

Clinical practice in the hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first three semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric patients requiring respiratory care are done. Emphasis of intensive care and mechanical ventilator procedures are introduced. Course Schedule

RESD 56C Techniques of Respiratory Therapy

2.5 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 143 Prerequisite: RESD 55

Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients. Course Schedule

RESD 56D Techniques of Respiratory Therapy

6 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lab: 324 Prerequisite: RESD 56C Corequisite: RESD 59 and RESD 61

Clinical practice including adult and neonatal intensive care requiring demonstration of all learned clinical skills. Application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric intensive care patients. A sixweek rotation is done in the neonatal intensive care unit. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first four semesters of the Respiratory Therapy Program. Course Schedule

RESD 57B Special Procedures for Respiratory Care

1.5 Units (Degree Applicable, CSU) Lecture: 27 Prerequisite: RESD 51B Corequisite: RESD 56A

Application and skills development in bronchoscopy, chest tubes, mechanical ventilation, microbiology, and arterial blood gas puncture. Course Schedule

RESD 58 Neonatal Intensive Care

3 Units (Degree Applicable, CSU) Lecture: 54 Corequisite: RESD 56B and RESD 55

Emphasizes neonatal pathophysiologies, etiologies, and ramifications. Encompasses the newest techniques in monitoring equipment used in the treatment and maintenance of the premature infant. Designed primarily for respiratory therapists and nurses. Course Schedule

RESD 59 Respiratory Therapeutic Modalities

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: RESD 55 Corequisite: RESD 56D and RESD 61

Advanced practitioner review and evaluation of patient data, equipment manipulation, and therapeutic respiratory therapy procedures. Student self-assessment and preparation for board examinations, credentialing and employment. Students are required to purchase self-assessment examinations. Course Schedule

RESD 60 Comprehensive Pulmonary Assessment

2 Units (Degree Applicable, CSU) Lecture: 36 Corequisite: RESD 51B and RESD 53

Techniques of pulmonary assessment including history taking, clinical laboratory data, pulmonary function testing data, chest X-rays, physical exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings; extensive practice in interpreting this data. Course Schedule

RESD 61 Current Issues in Respiratory Care

3 Units (Degree Applicable, CSU) Lecture: 54

Prerequisite: RESD 56C Corequisite: RESD 56D and RESD 59

Explores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory therapists. Course Schedule

RESD 62 Pharmacology for Respiratory Care

1.5 Units (Degree Applicable, CSU)Lecture: 27Prerequisite: RESD 50 and RESD 51A and RESD 52

Commonly used respiratory care drugs with emphasis on dosage, indications, contraindications, adverse reactions, and expected outcomes. Course Schedule

Sign Language & Interpreting (SIGN)

SIGN 101 American Sign Language 1 4 Units (Degree Applicable, CSU, UC) Lecture: 72

Fundamentals of American Sign Language. Preparation for visual/ gestural communication followed by intensive work on comprehension skills; modeling of grammatical structures; general information about Deaf Culture.One out-of-class observation required. Course Schedule

SIGN 101H American Sign Language 1 - Honors 4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: Acceptance into the Honors Program

Fundamentals of American Sign Language. Preparation for visual and gestural communication followed by intensive work on comprehension skills; modeling of grammatical structures; general information about Deaf Culture. One out-of-class observation required. Course Schedule

SIGN 102 American Sign Language 2

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: SIGN 101 or SIGN 101H

Further study of American Sign Language (ASL) focusing on comprehension skills, grammatical structures and practice in the expressive aspects of the language, as well as exposure to Deaf culture. Students are expected to attend outside events at their own expense. Course Schedule

SIGN 103 American Sign Language 3

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: SIGN 102

American Sign Language focused on developing comprehension skills, advanced grammatical structures with continued emphasis on expressive skills in narrative. Aspects of Deaf culture will be studied. Field trips required. Course Schedule

SIGN 104 American Sign Language 4

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: SIGN 103

Expressive and conversational skills in American Sign Language (ASL)along with continued focus on grammatical and cultural features. Course Schedule

SIGN 105 American Sign Language 5

4 Units (Degree Applicable, CSU) Lecture: 72 Prerequisite: SIGN 104

Advanced American Sign Language (ASL) communication skills with emphasis on signing descriptive narratives and strengthening conversational skills. Target language practice includes holding discussions and making decisions. Further exposure to Deaf cultural components. Course Schedule

SIGN 108 Fingerspelling

2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 36 Prerequisite: SIGN 102

Receptive and expressive fingerspelling. Course Schedule

SIGN 201 Introduction to Deaf Studies

3 Units (Degree Applicable, CSU) Lecture: 54

Topics central to the Deaf community including Deaf education, Deaf/ hearing relationships, and Deaf history. Topics include early intervention and education of deaf children, communication strategies and their effectiveness, anatomy and causes of deafness, and Deaf people as a cultural group. Gives a holistic perspective of Deaf people applicable to further studies in Deaf culture and community. Course Schedule

SIGN 202 American Deaf Culture

3 Units (Degree Applicable, CSU, UC) Lecture: 54

American Deaf cultural norms, values, mores and institutions. Course Schedule

SIGN 210 American Sign Language Structure

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: SIGN 103

Linguistic structure of American Sign Language, including phonology, morphology and syntax. Sociolinguistic issues will also be discussed. Course Schedule

SIGN 220 Translation: American Sign Language And English

4 Units (Degree Applicable, CSU) Lecture: 72 Prerequisite: SIGN 104 Corequisite: SIGN 210 (May have been taken previously)

American Sign Language (ASL) and English translation by comparing texts and manual narrative in both languages. Course Schedule

SIGN 223 Principles of Interpreting

3 Units (Degree Applicable, CSU) Lecture: 54 Prerequisite: SIGN 103 and Eligibility for ENGL 1A

Aspects of interpreting theory and process including the history of sign language interpreting. Examines the interpreter's role and ethical standards.

Course Schedule

SIGN 225 Ethical Decision Making for Interpreters

2 Units (Degree Applicable) Lecture: 36 Prerequisite: SIGN 223 and SIGN 231

Development of ethical decision-making skills through the analytical construct of the Demand/Control Schema (DC-S) for interpreting work. Includes professional work effectiveness and professional wellness. Course Schedule

SIGN 227 Cognitive Processing for Interpreters

4 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Lab: 54 Prerequisite: SIGN 104 and ENGL 1A Corequisite: SIGN 223 (May have been taken previously)

Development of cognitive processing skills necessary for interpreting between American Sign Language (ASL) and English. Constructing and deconstructing meaning, memory, listening, and attending will be covered. Includes memory building, restating, cloze, and listening exercises.

Course Schedule

SIGN 231 Interpreting

4 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Lab: 54 Prerequisite: SPCH 1A and SIGN 227

Skill development in consecutive interpreting from American Sign Language (ASL) to English and English to ASL. Processing skills and task management will be emphasized. Course Schedule

SIGN 232 Advanced Interpreting

4 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Lab: 54 Prerequisite: SIGN 231

Refines interpreting skills with emphasis on simultaneous interpreting. Intensive skill development in interpreting from English to American Sign Language (ASL) and ASL to English. Course Schedule

SIGN 239 Applied Interpreting

2 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 36 Prerequisite: SIGN 232

Capstone class to the interpreter training program. Course emphasizes application of knowledge and skills developed. Students will develop a direct connection to the field of interpreting and explore continuing education opportunities. Students are required to complete 40 hours of out-of-class interpreting and participation in out-of-class interpreting continuing education. Course Schedule

SIGN 240 Vocabulary Building for Interpreters

2 Units (Degree Applicable, CSU) (May be taken for Pass/No Pass only) Lecture: 36 Prerequisite: SIGN 104

Vocabulary expansion in both ASL and English with the goal of improving interpretations between these two languages. The course will focus on context, semantics, and parts of speech in determining culturally appropriate vocabulary choices. Interpreting students will learn to apply their growing vocabularies to ASL-English interpretations. Course Schedule

SIGN 250 Interpreting with Classifiers

1.5 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 18 Lab: 27

An overview of the common forms of ASL classifier predicates. Developing skill in establishing figure/ground, visualization, and shifting perspectives. Applying classifier predicates within the context of interpreting from English into American Sign Language. Course Schedule

SIGN 260 Video Interpreting

1.5 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lecture: 18 Lab: 27 Prerequisite: SIGN 231

Video interpreting and skill development as a video interpreter. Includes video relay interpreting (VRS), video remote interpreting (VRI), technical components used in video interpreting, and ethical consideration of the video interpreter. Lab portion of the course will focus on skill development in video interpreting. Course Schedule

SIGN 299 Special Projects in Sign Language/Interpreting

2 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 36

In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this class. Course Schedule

Sociology (SOC)

SOC 1 Sociology 3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 110) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Systematic study of human relations and social structures emphasizing the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change. Course Schedule

SOC 1H Sociology - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 110) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Systematic study of human relations and social structures emphasizing the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 1 and SOC 1H. Course Schedule

SOC 2 Contemporary Social Problems

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 115) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Sociological principles and concepts as applied in the understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss both the theoretical and practical approaches to social problems. Course Schedule

SOC 2H Contemporary Social Problems - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 115) Lecture: 54 Prerequisite: Acceptance into the Honors Program

Sociological principles and concepts as applied in the understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss both the theoretical and practical approaches to social problems. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 2 and SOC 2H. Course Schedule

SOC 4 Introduction to Gerontology

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

The characteristics, life circumstances, and problems of people as they progress through life. Emphasizes theoretical perspectives on the process of aging and the adjustment to aging. Covers sociological factors and social institutions that affect individuals as they move through the life course. Course Schedule

SOC 5 Introduction to Criminology

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 160) Lecture: 54 Prerequisite: Eligibility for ENGL 68

A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society. Course Schedule **SOC 5H Introduction to Criminology - Honors 3 Units** (Degree Applicable, CSU, UC, C-ID #: SOC 160) Lecture: 54 Prerequisite: Acceptance into the Honors Program

A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 5 and SOC 5H. Course Schedule

SOC 7 Sociology of Religion

3 Units (Degree Applicable, CSU, UC) Lecture: 54

An analysis of religion as a social institution. Focus is on the influence that religion has on American society, religious movements, norms, symbols, and the social manifestations of religious observable facts. Field trips may be required. Course Schedule

SOC 14 Marriage and the Family

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 130) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Sociological functions of dating, engagement, weddings, marriage, and the family. Focuses on influences and theories of mate selection, love, and interpersonal attraction. Covers trends and changes in marriage, the family, and gender roles. Explores different types of families and family patterns.

Course Schedule

SOC 14H Marriage and the Family - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 130) Lecture: 54

Prerequisite: Acceptance in the Honors Program.

Sociological functions of dating, engagement, weddings, marriage, and the family. Focuses on influences and theories of mate selection, love, and interpersonal attraction. Covers trends and changes in marriage, the family, and gender roles. Explores different types of families and family patterns. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 14 and SOC 14H. Course Schedule

SOC 15 Child Development

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Theoretical aspects of physical, social, emotional and cognitive development from conception through adolescence. Requires observation of children. Course Schedule

SOC 20 Sociology of Ethnic Relations

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 150) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Ethnic and racial groups in the U.S. and social factors leading to prejudice, discrimination, and stereotypes. Four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) examined with emphasis placed on historical experiences, contemporary circumstances and future trends.

Course Schedule

SOC 20H Sociology of Ethnic Relations - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: SOCI 150) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Ethnic and racial groups in the U.S. and social factors leading to prejudice, discrimination, and stereotypes. Four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) examined with emphasis placed on historical experiences, contemporary circumstances and future trends. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 20 and SOC 20H. Course Schedule

SOC 36 Asian American Communities

3 Units (Degree Applicable, CSU, UC) Lecture: 54

A socio-cultural study of Asian Americans that includes race, class, and gender. Explores the contemporary experiences of peoples originating in the Pacific Islands, Southeast Asia, South Asia, and East Asia. Emphasizes social structure, social change, and offers a theoretical framework for analysis. Course Schedule

SOC 99 Special Projects in Sociology

2 Units (Degree Applicable, CSU) Lecture: 36

Offers students recognition for their academic interests in sociology and the opportunity to explore the discipline of sociology to greater depth. The content of the course and the methods of study vary from semester to semester and depend on the particular project under consideration. Course Schedule

Spanish (SPAN)

SPAN 1 Elementary Spanish 4 Units (Degree Applicable, CSU, UC) Lecture: 72

Conversing, reading, and writing in Spanish at the elementary level. Includes essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Hispanic culture. Course Schedule

SPAN 1S Spanish for the Spanish Speaking

4 Units (Degree Applicable, CSU, UC)

Lecture: 72

Formerly SPAN 11

Provides Spanish-speaking students opportunity to improve skills in standard Spanish grammar and vocabulary and to broaden their understanding of Hispanic cultures. Focuses on developing vocabulary, improving orthography, and the use of grammatical structures, both oral and written. Class instruction conducted in Spanish. Course Schedule

SPAN 2 Continuing Elementary Spanish

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: SPAN 1

Further development of conversational, reading, and writing skills in Spanish with special emphasis on verbs, grammar, and expansion of vocabulary. Further study of Hispanic culture. Course Schedule

SPAN 2S Continuing Spanish for the Spanish Speaking

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Prerequisite: SPAN 1S or SPAN 11 or equivalent

Provides continuing intermediate Spanish-speaking students with previous formal study of Spanish with further development and improvement of skills in standard Spanish and a broader understanding of Hispanic cultures. Culturally-based topics are the focus of readings and class discussions. Class instruction conducted in Spanish. Course Schedule

SPAN 3 Intermediate Spanish

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: SPAN 2

Further development of communicative proficiency in Spanish. Further study and review of grammar. Increasing emphasis on reading and writing as tools in exploring Hispanic civilization. Course Schedule

SPAN 4 Continuing Intermediate Spanish

4 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 72 Prerequisite: SPAN 3

Increased proficiency in speaking, reading and writing Spanish. Review of grammar, increased vocabulary building. Readings and discussions on Hispanic cultural topics. Introduction to Hispanic literature. Course Schedule

SPAN 53 Conversational Spanish

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: SPAN 2

Development of intermediate Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context. Course Schedule

SPAN 54 Continuing Conversational Spanish

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54 Prerequisite: SPAN 53

Development of advanced Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context. Course Schedule

Speech (SPCH)

SPCH 1A Public Speaking 4 Units (Degree Applicable, CSU, UC, C-ID #: COMM 110) Lecture: 72

Prerequisite: Eligibility for ENGL 68

Study and apply rhetorical principles to research and analyze topics, write basic and advanced speech outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize effective verbal, vocal and physical communicative strategies, and critical/analytical techniques. Students may not receive credit for both SPCH 1A and SPCH 1AH. Course Schedule

SPCH 1AH Public Speaking - Honors

4 Units (Degree Applicable, CSU, UC, C-ID #: COMM 110) Lecture: 72

Prerequisite: Acceptance into the Honors Program

Study and apply rhetorical principles to research and analyze topics, write basic and advanced speech outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize effective verbal, vocal and physical communicative strategies, and critical/analytical techniques. Students may not receive credit for both SPCH 1A and SPCH 1AH. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 1A.

Course Schedule

SPCH 2 Fundamentals of Communication

4 Units (Degree Applicable, CSU, UC) Lecture: 72 Corequisite: ENGL 1A or ENGL 1AH (may have been taken previously)

Fundamental theories and competencies in interpersonal, small group, public, and intercultural communication. Oral presentations are required. Course Schedule

SPCH 3 Voice and Diction

3 Units (Degree Applicable, CSU, UC) (May be taken for option of letter grade or Pass/No Pass) Lecture: 54

Improvement of the speaking voice and oral communication style, including proper use for control and projection of the voice, vocal expressiveness, articulation and pronunciation. Develops accuracy of sound production for standard American speech through use of the International Phonetic Alphabet. Emphasizes individual diagnosis and extensive oral practice. Course Schedule

SPCH 4 Performance of Literature

3 Units (Degree Applicable, CSU, UC, C-ID #: COMM 170) Lecture: 54

Theory, principles, and techniques of the performance of literature in solo and duo formats. Texts will include prose, poetry, drama, nonfiction and other forms. Appreciation of various genres of literature through textual analysis, oral reading, and evaluation. Practical training is given in critical reading, editing, and performance of poetry, prose, drama, essay, and experimental forms of performance text drawn from a diverse range of cultural viewpoints and voices. Course Schedule

SPCH 6 Group Communication

3 Units (Degree Applicable, CSU, UC) Lecture: 54

Theory, principles, application and evaluation of group communication processes, including problem-solving, conflict management, decision making, and leadership. Course Schedule

SPCH 7 Intercultural Communication

3 Units (Degree Applicable, CSU, UC, C-ID #: COMM 150) Lecture: 54

Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication competence for more effective interactions with others in a diverse society. Students may not receive credit for both SPCH 7 and SPCH 7H. Course Schedule

SPCH 7H Intercultural Communication - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: COMM 150) Lecture: 54

Prerequisite: Acceptance into the Honors Program

Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication competence for more effective interactions with others in a diverse society. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 7 and SPCH 7H. Course Schedule

SPCH 8 Professional and Organizational Speaking

4 Units (Degree Applicable, CSU) Lecture: 72 Corequisite: ENGL 1A or ENGL 1AH (may have been taken previously)

Speech communication principles as employed in organizations, including decision making, leadership, conflict resolution and communication networks as well as substantial skills development in preparing and delivering oral presentations within professional contexts and in the workplace. Oral presentations are required. Course Schedule

SPCH 8H Professional and Organizational Speaking - Honors

4 Units (Degree Applicable, CSU) Lecture: 72 Prerequisite: Acceptance into the Honors Program Corequisite: ENGL 1A and ENGL 1AH (may be taken previously)

Speech communication principles as employed in organizations, including decision making, leadership, conflict resolution and communication networks as well as substantial skills development in preparing and delivering oral presentations within professional contexts and in the workplace. Oral presentations are required. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 8 and SPCH 8H. Course Schedule

SPCH 15 Forensics: Fundamentals of Contest Speech and Debate

2 Units (Degree Applicable, CSU, C-ID #: COMM 160B) (May be taken four times for credit) Lecture: 18 Lab: 54 Advisory: SPCH 1A or SPCH 1AH

Participation in one or more intercollegiate competitions as part of the Mt. SAC Forensics Team. Instructions in preparatory procedures for these tournaments, including techniques in persuasive oratory, interpretation, expository, impromptu, speech analysis, and debate. Student has option to choose area of interest and also an opportunity to participate in public community programs. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences. Course Schedule

SPCH 16 Forensics: Individual Event Team

3 Units (Degree Applicable, CSU) (May be taken four times for credit)

Prerequisite: Admission by audition

Speech performance skills and participation in multiple intercollegiate speaking competitions as members of the Mt. SAC Forensics Team. Auditions are held prior to the first week of class and are scheduled through the coaching staff. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences. Course Schedule

SPCH 17 Forensics: Debate Team

3 Units (Degree Applicable, CSU) (May be taken four times for credit)

Prerequisite: Admission by Audition

Speaking and argumentation skills and participation in multiple intercollegiate speaking competitions as members of the Mt. SAC Forensics Team. Emphasis is on parliamentary debate and limited preparation speaking. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences. Course Schedule

SPCH 18 Forensics: Reader's Theater Team

3 Units (Degree Applicable, CSU) (May be taken four times for credit)

Prerequisite: SPCH 15

Speech performance skills and participation in multiple public performances, including a regional, state or national-level forensics competition, as members of the Mt. SAC Forensics Team. Students will perform in one or more reader's theater pieces. Tournament attendance required outside regularly scheduled class hours. Students who repeat this course will benefit from additional competition experiences. Course Schedule

SPCH 20 Argumentation and Debate

3 Units (Degree Applicable, CSU, UC, C-ID #: SPCH 120) Lecture: 54 Prerequisite: SPCH 1A or SPCH 1AH

Rhetorical principles of argumentation in both theory and practice. Emphasis is given to rational discussion and reasoned advocacy. Course Schedule

SPCH 20H Argumentation and Debate - Honors

3 Units (Degree Applicable, CSU, UC, C-ID #: COMM 120) Lecture: 54

Prerequisite: SPCH 1A or SPCH 1AH and acceptance into the Honors Program

Rhetorical principles of argumentation in both theory and practice. Emphasis is given to rational discussion and reasoned advocacy. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 20 and SPCH 20H. Off-campus tournaments may be required. Course Schedule

SPCH 26 Interpersonal Communication

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: Eligibility for ENGL 68

Dynamics of everyday one-to-one communication focusing on the role behavior, psychology, and environment play in friendship, family, intimate, and workplace relationships. Factors that influence communication such as non-verbal cues, language, perception, culture, power dynamics, listening, self-concept, and health and personal well-being. Problems in relational communication and conflict management as well as adaption and success in interpersonal effectiveness. Course Schedule

SPCH 26H Interpersonal Communication - Honors 3 Units (Degree Applicable, CSU, UC)

Lecture: 54 Prerequisite: Acceptance into the Honors Program

Dynamics of everyday one-to-one communication focusing on the role behavior, psychology, and environment play in friendship, family, intimate, and workplace relationships. Factors that influence communication such as non-verbal cues, language, perception, culture, power dynamics, listening, self-concept, and health and personal well-being. Problems in relational communication and conflict management as well as adaption and success in interpersonal effectiveness. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 26 and SPCH 26H. Course Schedule

SPCH 30 Gateway to Communication Studies

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Corequisite: ENGL 1A or ENGL 1AH (may be taken previously) Advisory: READ 100

Prominent issues in communication theory, introduction to the professional field of communication, and practice of multiple research methods. Particularly useful for students preparing for upper division study in communication or related disciplines. Course Schedule

SPCH 99 Special Projects in Speech

0.5-2 Units (Degree Applicable, CSU) Lecture: 9-36

Offers selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer special projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Course Schedule

Study Techniques (STDY)

STDY 80 Foundations for Academic Success 3 Units (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 54

College success course emphasizing academic achievement that promotes learning through self awareness, time management, listening, note taking, oral and written communication, test taking, memorization, and the use of campus resources using a brain-based perspective. Course Schedule

STDY 85A Basic Overview of Strategies for Academic Success

1 Unit (Not Degree Applicable) Lecture: 18

College success study techniques course emphasizing memory, motivation, note-taking, test-taking, and time management strategies. Course Schedule

STDY 85C Online Learning Success Skills

1 Unit (Not Degree Applicable) Lecture: 18 Advisory: Eligibility for ENGL 67 and Eligibility for READ 90

Introductory college success course overview for online learning using a brain-based perspective emphasizing success strategies designed to prepare students to take online classes and to introduce students to strategies for online learning. Course Schedule

STDY 100 University-level Academic Success Strategies

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68 and eligibility for READ 100

Advanced transfer-level college success course emphasizing study strategies that include Triune Brain Theory, Emotional Intelligence, learning theories, preparation for transfer, self-management, and critical thinking using a brain-based perspective. Course Schedule

Surveying (SURV)

SURV 1A Surveying

3 Units (Degree Applicable, CSU, UC, C-ID #: ENGR 180) Lecture: 36 Lab: 54 Prerequisite: MATH 150

Surveying and use and care of surveying instruments such as steel tape, engineer's level, theodolite, and total station. Includes horizontal and vertical measurements, layout, traverse, area computations, analysis and adjustments of systematic and random errors, stadia surveying, and mapping.

Course Schedule

SURV 1B Surveying

3 Units (Degree Applicable, CSU, UC) Lecture: 36 Lab: 54 Prerequisite: SURV 1A

Land surveying including coordinate geometry, missing data, construction surveying, volumes, property surveying, control surveying, California Coordinate System, and horizontal and vertical curves. Introduces photogrammetric methods, 3-D laser scanning, Global Positioning System (GPS), Geographic Information System (GIS), mapping project, method of least squares, and land survey descriptions. Field trips are required. Course Schedule

Technology-Related Courses (TECH)

TECH 60 Customer Relations for the Technician 2 Units (Degree Applicable) Lecture: 36

Customer relations (soft skills) for the technician including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics, and maintaining customer satisfaction. Course Schedule

TECH 89 Preparation for Work Experience

1 Unit (Not Degree Applicable) Lecture: 18

Preparation for Work Experience in Engineering and Industrial Technology related occupations including opportunities for assessment of personal performance, improving technical knowledge, professionalism, the culture of work, developing an internship into employment, avoiding injury, and workers' compensation. Instructor authorization is required prior to enrollment.

Course Schedule

Theater Arts (THTR)

THTR 9 Introduction to Theater Arts

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 111) Lecture: 54

Aesthetic, artistic, technical, and business aspects of theater. Course Schedule

THTR 10 History of Theater Arts

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 113) Lecture: 54 Prerequisite: Eligibility for ENGL 1A

Dramatic literature and the development of dramatic art. Representative plays and the history and development of the living stage will be stressed.

Course Schedule

THTR 11 Principles of Acting I

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 151) Lecture: 54

Introduction to the basic principles and techniques of acting as an artistic discipline. Analysis of the action, given circumstances, and language of dramatic literature. Rehearsal of monologue and scene work. Course Schedule

THTR 12 Principles of Acting II

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 152) Lecture: 54 Prerequisite: THTR 11

Practical preparation for professional rehearsal and audition scenarios through advanced scene work and audition technique. Course Schedule

THTR 13 Play Rehearsal and Performance - Technical

1-2 Units (Not Degree Applicable, CSU) (May be taken four times for credit) Lab: 54-108 Prerequisite: Admission by interview

Planning, preparation, and presentation of college-sponsored dramatic presentations. Emphasis on technical theater, including light, deck, sound, costume, and stage management. Course Schedule

THTR 14 Stagecraft

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 171) Lecture: 36 Lab: 54

Theory and practice of scenery construction, scenic painting, and stage rigging. Practical work in scene construction and rigging with the opportunity to perform these tasks in actual theater situations. Course Schedule

THTR 15 Play Rehearsal and Performance - Acting

1-3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 191) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 54-162 Prerequisite: Admission by audition

Planning, preparation, and presentation of college-sponsored dramatic presentations. Emphasis on acting. Attendance at performances is required. Course Schedule

THTR 16 Theatrical Make-Up

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 175) Lecture: 45 Lab: 36

Theory and practice of makeup for the stage. Emphasis will be on the design and application of straight, stylized, character, and other make-up techniques. Course Schedule

THTR 17 Acting for the Camera

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Prerequisite: THTR 11

Study in performance for TV and films. Background, methodology and techniques of acting for the camera. Includes TV equipment and how to make it work for the TV actor; study of image, type, and character, evaluation and use of scripts and monologues with practical exercises and on-camera scenes in various styles such as TV drama, sit-coms, commercials. Assists students to prepare for an occupation in the performing areas of television and film. Course Schedule

THTR 18 Technical Theater Practicum

1 Unit (Degree Applicable, CSU, UC, C-ID #: THTR 192) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) Lab: 54

Technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set up, property construction, stage sound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production.

Course Schedule

THTR 19 Theatrical Costuming

3 Units (Degree Applicable, CSU, UC, C-ID #: THTR 174) Lecture: 36 Lab: 54

Theatrical costuming design and construction. Includes the study of costume history, principles of costume design, fibers and textiles, basic costume construction, and design rendering techniques. Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television, and reenactments. Course Schedule

THTR 20 Introduction to Script Analysis for the Theater

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68

Analysis of dramatic literature for practical application in the performance arts. This class focuses on reading and analyzing play scripts as an actor, theater director, or theater designer. Course Schedule

THTR 21 Introduction to Theater Design

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Survey of scenery, lighting, properties, costumes, makeup, and sound design for the theater. Through demonstration and laboratory experiences, students will gain an appreciation for theatrical design by learning to identify fundamental principles for creating a design and using standard techniques to communicate a design. Course Schedule

THTR 22 Stage Lighting

3 Units (Degree Applicable, CSU) Lecture: 36 Lab: 54

Theory and practice of stage lighting. This course covers the study and execution of stage lighting with an emphasis on lighting instruments, control consoles, color theory, and the necessary paperwork used for conveying the design. Course Schedule

THTR 25 Theatrical Playwriting

3 Units (Degree Applicable, CSU, UC) Lecture: 54 Advisory: Eligibility for ENGL 1A

Playwriting for the stage. Students will create and critique their own plays, as well as study and critique plays from established authors and productions. Includes basics of linear, episodic, 'A'-'B' and ritual structures.

Course Schedule

THTR 27 Introduction to Stage Management

3 Units (Degree Applicable, CSU) Lecture: 54

Analysis of stage management protocols, documentation, and techniques for live theater. Practical application of preparation methods focused primarily on auditions, rehearsals, meetings, and performances. Course Schedule

THTR 28 Directing for the Stage

3 Units (Degree Applicable, CSU) Lecture: 54 Advisory: Eligibility for ENGL 68

Fundamental techniques for beginning stage directors. Exercises and practical scenarios for organizing and executing a rehearsal and production process. **Course Schedule**

THTR 60A Theater for Young Audiences - Performance

2 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lab: 108

Rehearsal protocol and technique for performers through the development and production of theater for young audiences. Novice performers are able to experience a full rehearsal process culminating in the practical application of learned principles in a series of public performances at local elementary schools. Field trips are required. **Course Schedule**

THTR 60B Theater for Young Audiences - Design

2 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lab: 108

Basic design principles of sound, scenery, costume, and properties through the development of an original theater production for young audiences. Students will have the opportunity to develop and execute theatrical design elements of a performance in front of an audience. Field trips are required.

Course Schedule

THTR 60C Theater for Young Audiences - Stage Management 2 Units (Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lab: 108

Principles and techniques of stage management in theater for young audience productions. Students will learn to collaborate with other artists through the scheduling and management of rehearsals and a six-week tour of an original production to local at-need elementary schools. Students will experience real-world production deadlines and management challenges through the practical application of a full production process. Field trips required. Course Schedule

THTR 99 Special Projects in Theater

1-2 Units (Degree Applicable, CSU) Lab: 54-108

In order to offer students recognition for their academic interests and ability, and the opportunity to explore their disciplines in greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have instructor's authorization before enrolling in this class. Students who repeat this course will make individual contracts with the instructor to ensure that proficiencies are enhanced. **Course Schedule**

Tutor Training (TUTR)

TUTR 10A Introduction to Tutoring

1 Unit (Not Degree Applicable)

(May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population. Course Schedule

TUTR 10B Tutoring in the English Language

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Prerequisite: Eligibility for ENGL 1A

Tutoring in the English language with an emphasis on approaches to working with students on written drafts and addressing the needs of nonnative speakers. **Course Schedule**

TUTR 10C Tutoring as a Supplemental Instructor

1 Unit (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18

Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor. Course Schedule

TUTR 10D Tutoring in Mathematics

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Prerequisite: MATH 71

Tutoring in mathematics with an emphasis on strategies to promote active learning. Course Schedule

TUTR 10R Tutoring in Reading

1 Unit (Not Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Advisory: Eligibility for READ 100

Application of strategic reading processes and approaches to reading tutoring. Prepares students to become tutors for reading. **Course Schedule**

Welding (WELD)

WELD 30 Metal Sculpture

2 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 54

Welding processes used in the metal sculpting industry to create threedimensional art forms. Covers design, pre-construction analysis, and cost estimates for projects. Includes use of equipment for oxyfuel welding, gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), shielded metal arc welding (SMAW), and flux-cored arc welding (FCAW). Includes demonstrations and exercises in welding as it relates to the art industry.

Course Schedule

WELD 40 Introduction to Welding

2 Units (Degree Applicable, CSU) Lecture: 18 Lab: 54

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries. Course Schedule

WELD 50 Oxyacetylene Welding

2 Units (Degree Applicable) Lecture: 18 Lab: 54

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices. Course Schedule

WELD 51 Basic Electric Arc Welding

2 Units (Degree Applicable) Lecture: 18 Lab: 54 Advisory: WELD 50

Electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (AWS) procedure for certification. Course Schedule

WELD 53A Welding Metallurgy

3 Units (Degree Applicable, CSU) Lecture: 54

Designed for students seeking a career in welding and welding inspection. Covers structure of matter, chemical, physical, and mechanical properties of metals, principles of alloying, solid state diffusion, plastic deformation, and heat treatment. Course Schedule

WELD 60 Print Reading and Computations for Welders

3 Units (Degree Applicable)

Lecture: 54

Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes, and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions. Course Schedule WELD 70A Beginning Arc Welding

3 Units (Degree Applicable) Lecture: 18 Lab: 108

Develops manipulative skills and techniques for Shielded Metal Arc (SMAW) and Flux Cored Arc (FCAW) welding processes in the flat and horizontal positions using AC and DC welding currents on carbon steel. Course Schedule

WELD 70B Intermediate Arc Welding

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Advisory: WELD 70A

Welding high alloy steel with both Shielded Metal Arc (SMAW) and Flux Core Arc (FCAW) welding processes in the vertical and overhead positions with an introduction to Gas Metal Arc (GMAW) and Gas Tungsten (GTAW) welding. Course Schedule

WELD 70C Certification for Welders

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Advisory: WELD 70A

Building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding Society's (AWS) D1.1 and D1.3. Course Schedule

WELD 80 Construction Fabrication and Welding

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Advisory: WELD 40 and WELD 51 and WELD 70A

Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components. Course Schedule

WELD 81 Pipe and Tube Welding

3 Units (Degree Applicable) Lecture: 18 Lab: 108 Advisory: WELD 70B, WELD 70C

Welding in all positions as applied to the pipe industry. Welding processes include shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW) using a variety of materials and configurations on subcritical and critical piping and tubing. Course Schedule

WELD 90A Gas Tungsten Arc Welding

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 108 Advisory: WELD 70B

Advanced Gas Tungsten Arc Welding (GTAW) or tungsten inert gas (TIG) of steel, aluminum, corrosion resisting steel (CRES), and exotic metals. All position welds with many surfaces and transitions. Course Schedule

WELD 90B Semiautomatic Arc Welding Process

3 Units (Degree Applicable, CSU) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Lab: 108 Advisory: WELD 70B

Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered. Course Schedule

WELD 91 Automotive Welding, Cutting and Modification

1 Unit (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lecture: 18 Corequisite: WELD 91L Advisory: WELD 70B

Welding and cutting metals used in the automotive industry. Gas Metal Arc (GMAW/MIG), Gas Tungsten Arc (GTAW/TIG), Plasma Arc Cutting (PAC), and Oxy-fuel Cutting (OFC) welding will be covered. Course Schedule

WELD 91L Automotive Welding, Cutting and Modification Lab

2 Units (Degree Applicable) (May be taken for option of letter grade or Pass/No Pass) Lab: 108 Corequisite:WELD 91 (may have been taken previously) Advisory:WELD 70B

Practical lab applications for sheet metal forming, metal inert gas (MIG), tungsten inert gas (TIG), resistance spot (RSW), and Oxy-fuel welding, plasma arc cutting (PAC) and Oxy-fuel cutting. Includes design, fabrication and assembly of automotive suspension and chassis components. Course Schedule

WELD 96 Work Experience in Welding

1-4 Units (Degree Applicable) (May be taken for Pass/No Pass only) Lab: 75-300 Prerequisite: Compliance with work experience regulations as designated in the college catalog Advisory: WELD 70B

Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Course Schedule 366 Welding (WELD)

ADULT AND CONTINUING EDUCATION PROGRAMS OVERVIEW

Adult education courses are designed to support students towards a career or college pathway, as well as to provide developmental, educational, and lifelong learning opportunities. Courses and programs are defined categorically under the California Education Code, Section 84711, whereby state funding is authorized for specific categories. Categories currently provided by Mt. SAC noncredit include: Basic Skills (including tutoring), English as a Second Language (ESL and VESL), Citizenship, Education for Older Adults, Adults with Disabilities, Secondary Education, Short-term Vocational, and additional courses defined as adult education curricula.

Select options in left navigation for information about individual programs. School of Continuing Education Website (http://www.mtsac.edu/ continuinged)

Secondary Education

The Adult Basic Education department is committed to providing basic skills instruction and support services that prepare adult students to transition into college and employment.

ABE Certificates of Competency

Noncredit Certificates of Competency represent sequences of courses in Basic Skills, Career Development, English as a Second Language or Secondary Education, which allow the student to develop individual competencies based on their personal educational goals and objectives. Each certificate is unique, but all provide the student an opportunity to gain skills necessary to advance in their careers, transition into a new career or prepare for future advanced academic studies and training.

Students are encouraged to gain more information by calling the College telephone number listed in each of the four specific Certificates of Competency that follow.

The Adult Basic Education department is committed to providing basic skills instruction and support services that prepare adult students to transition into college and employment. These services are offered at no cost:

- Basic Skills Instruction (Reading, Writing, and Mathematics)
- · Armed Services Vocational Aptitude Battery (ASVAB) Preparation
- Support Services to EDD and WIOA I students
- Academic and Career Counseling/Advising
- · Computer Literacy and Keyboarding Classes
- Typing Test Certification

As part of the enrollment process, students **must** attend an orientation and complete assessments before starting classes. Orientation sessions are offered weekly in both the day and evening, and registration can be done at any time during the semester. Counselors and educational advisors are available to provide students with the following services:

- · Identifying career and academic goals
- Enrolling into college
- Financial aid information
- Educational and career planning
- Career development courses and services to prepare students for employment

For more information on Adult Basic Education programs and services, contact (909)274-4845.

Basic Career Readiness Certificate #30805

This certificate provides courses that will improve the entry level basic skills needed for employment. Career Development includes personal career assessment, basic interview skills, and job search techniques that students can apply to current and future employment. Students will increase basic skills in reading comprehension, writing, math and basic computer literacy. Students are required to take Career Development and may take either Personal Computer Applications or Adult Basic Education or both. For more information, contact the Adult Basic Education Department at (909) 274-4845.

Program Learning Outcomes

Upon completion of Personal Computer Applications and Career Development courses, students will be able to demonstrate proficiency in software applications and work readiness skills.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------|-------|
| BS ABE02 | Adult Basic Education | |
| BS ABE05 | Career Development | |
| BS LRN06 | Personal Computer Applications | |

Basic Skills Certificate

#24058

The Basic Skills Certificate of Competency provides courses that will improve basic reading, writing, and mathematics skills. Improved literacy will benefit students in obtaining employment, advancing in their careers, or preparing for future advanced academic studies. Students will progress through different levels within this sequence based on individual need. Some students who improve skill levels in reading and mathematics and wish to take the military entrance exam (ASVAB) can take the ASVAB Prep course as an elective. Other elective courses provide students with the necessary admissions, assessment, educational planning, and enrollment into credit.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------------|-------|
| BS ABE02 | Adult Basic Education | |
| BS LRN01 | Short-Term Review | |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| BS ABE01 | Career Information and Guidance | |
| BS ABE04 | Guidance and Orientation to Special | |
| | Programs | |

| BS ASVAB | ASVAB Preparation (Armed Services |
|----------|-----------------------------------|
| | Vocational Aptitude Battery) |

GED/HSE Preparation #30778

Improve the academic skills needed for passing the General Education Development (GED) exam. Math, reading, writing, science and social studies. Progress in a sequence based on individual need.

Program Learning Outcomes

Upon successful completion of this certificate, students will be prepared to pass the High School Equivalency exams and successfully transition to credit or employment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BS GEDMA | GED Prep: Mathematics | |
| BS GEDSC | GED Prep: Science | |
| BS GEDSS | GED Preparation: Social Studies | |
| BS GEDWR | GED Preparation: Language Arts, Writing | |

#31598

The Secondary Education Certificate provides all courses needed to satisfy requirements for a high school diploma, which will increase future employment and higher education opportunities. High school credits may be granted for previous equivalent courses taken at accredited institutions. A minimum of 20 residency credits must be completed at Mt. San Antonio College. Students will complete a total of 160 high school credits in the following disciplines.

Program Learning Outcomes

- · Students will pass final exams (cumulative) in high school courses.
- There will be an increase in the number of diplomas earned by Adult High School Diploma students.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

For more detailed information regarding course and graduation requirements, please call (909) 274-4937.

| Course Prefix | | Course Name | Units |
|---------------|-----------|---|-------|
| | BSHS ALG1 | High School Algebra 1 | |
| | BSHS ALG2 | High School Algebra 2 | |
| | BSHS ART1 | High School Art and Creative Expression | |
| | BSHS ART2 | HIgh School Art 2 | |
| | BSHS BIO | High School Biology | |
| | BSHS CHEM | High School Chemistry | |
| | BSHS CIV | High Schools Civics | |
| | BSHS EASC | High School Earth Science | |
| | BSHS ECON | High School Economics | |
| | BSHS ENG1 | High School English 1 | |
| | BSHS ENG2 | High School English 2 | |
| | BSHS ENG3 | High School English 3 | |

| BSHS ENG4 | High School English 4 | | | |
|---------------|---|--|--|--|
| BSHS GEOG | High School Geography | | | |
| BSHS GEOM | High School Geometry | | | |
| BSHS HLTH | High School Health | | | |
| BSHS INMA1 | HS Integrated Math 1 | | | |
| BSHS INMA2 | Integrated Math 2 | | | |
| BSHS INMA3 | HS Integrated Math 3 | | | |
| BSHS MUSC | High School Music Appreciation | | | |
| BSHS PHSC | High School Physical Science | | | |
| BSHS PREA | High School Pre-Algebra | | | |
| BSHS PSY | High School Psychology | | | |
| BSHS SOC | High School Sociology | | | |
| BSHS SPN1 | High School Spanish 1 | | | |
| or BSHS SP | or BSHS SPNSS Spanish for Native Speakers 1 | | | |
| BSHS SPN2 | High School Spanish 2 | | | |
| or BSHS SP | PHigh School Spanish for Native Speakers 2 | | | |
| BSHS USH | High School U.S. History | | | |
| BSHS WHS | High School World History | | | |
| BSHS WREX | High School Expository Writing | | | |
| BSHS WRIT1 | Literature/Writing 1 | | | |
| BSHS WRIT2 | Literature and Writing Fundamentals 2 | | | |
| Recommended E | lectives | | | |
| BSHS CPTC | High School Computer Technology | | | |
| BSHS KEY | High School Typing Keyboarding | | | |
| BSHS PLNG | High School Planning and Guidance | | | |
| BSHS READ | High School Reading | | | |
| BSHS SSK | High School Study Skills | | | |

Adults with Disabilities

The School of Continuing Education's (SCE) ***IMPACT** Program provides education and specialized services for adults with intellectual disabilities (ID) and other developmental disabilities (DD). A comprehensive curriculum is under development to prepare students for employment, living independently, participating in college life, and becoming more independent in the community. The College campus and surrounding community provide a rich environment for instruction and skill development. **IMPACT** enables students with ID/DD to attend college and maximize their potential for integration into the mainstream of society.

* (Independent living skills, Mobility training, Physical health and well-being, Advocacy for self, College career and job readiness skills and Technology training)

Purpose:

- To provide a coordinated instructional program designed to help students develop their social, personal, academic, vocational, and independent living skills.
- To provide an inclusive, structured environment that enables individuals with ID/DD to develop and manage appropriate patterns of behavior within a social and vocational context.
- To develop a person-centered educational and vocational plan by assessing the interests, needs and capabilities of each participant.

For more information, please contact Susan Stroebel at (909) 274-4237.

| Course Prefix | Course Name |
|---------------|---|
| DSPS ELL01 | Lifelong Learning for the Special Needs Population |
| DSPS IAEP | Interacting with Emergency Personnel and Authorities |

Education for Older Adults

Courses designed for older adults (age 55+ years)¹ provide the full continuum of education from vocational classes to the pursuit of long-standing educational goals. Classes are offered in the health, art, and vocational areas, and are conducted at various senior and community centers and residential facilities throughout the Mt. San Antonio College District.

Office Computer Applications Certificate #24410

This certificate in Office Computer Applications is customized to meet the needs of the entry-level adult student or professional, who is seeking to acquire an array of office computer skills required in a computerized office environment.

Program Learning Outcomes

 Upon successful completion of this sequence of beginning-level computer courses, students will be prepared for entry-level office support employment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-------------------------------------|-------|
| VOC CPBC1 | Basic Computing - Level 1 | |
| VOC CPBC2 | Basic Computing - Level 2 | |
| VOC CPBC3 | Basic Computing - Level 3 | |
| VOC CPNET | Internet Research - an Introduction | |
| VOC CPCC | Creative Computing | |

¹ Although courses are designed for the older adult, anyone 18 years of age or older may enroll.

The Education for Older Adults has two programs that provide students with services and opportunities to enrich their Mt. SAC experience.

Mountie Volunteer Program (MVP)

The MVP Program partners with the Retired Senior Volunteer Program (RSVP), and coordinates and provides volunteer opportunities for participants. The program recruits and screens potential volunteers.

Generations Program

The Generations Program provides educational opportunities that foster inter-generational relationships, and links generations for the good of society, such as student athletes providing volunteer hours for the Education for Older Adults program.

For more information on Education for Older Adults, please call (909) 274-4192.

Class Locations BRDG - Bridgecreek Retirement Center

3601 Holt Avenue, West Covina

Units (626) 332-1135

COUN - Country View Retirement Home

824 Cameron, West Covina (626) 962-3511

COV-AT - Atria-Covina

825 W. San Bernardino Road, Covina (626) 967-9621

DBC - Diamond Bar Center

1600 Grand Avenue, Diamond Bar (909) 839-7068

DBL - Diamond Bar Library

21810 Copley Drive, Diamond Bar (909) 861-4978

EMSD - Emeritus of San Dimas

1740 S. San Dimas Avenue, San Dimas (909) 394-0304

ESEALS - Easter Seals Southern California

837 W. Christopher Street, Suite D, West Covina (626) 856-1601

HERI - Heritage Park Community Center

2900 Brea Canyon Road, Diamond Bar (909) 396-5699

HILL - Hillcrest Homes

2705 Mountain View, La Verne (909) 392-4358

IRC - Irwindale Recreation Center

16053 Calle DePaseo, Irwindale (Behind Irwindale City Hall) (626) 430-2227

IRWN - Irwindale Senior Citizen's Center

16116 Arrow Highway, Irwindale (626) 430-2284

JOS - Joslyn Senior Citizens' Center

815 N. Barranca, Covina (626) 966-6378

LV - La Verne Community Center

3680 D Street, La Verne (909) 596-8776

MAS - The Masonic Home

1650 Old Badillo Street, Covina (626) 251-2234

MSAG - Mt. San Antonio Gardens

900 E. Harrison Avenue, Pomona (909) 624-5061

PSC - Palomares Senior Center

499 E. Arrow Highway, Pomona

(909) 620-2324

PATH - Pathfinder Park Community Center

18150 E. Pathfinder Road, Rowland Heights (562) 690-0933

RAN - Atria-Rancho Park Adult Community

801 Cypress Way, San Dimas (909) 592-9662

RGNT - Regent Senior Living

150 S. Grand Avenue, West Covina (626) 332-3344

SDMS - San Dimas Retirement Center

834 W. Arrow Highway, San Dimas (909) 599-4512

SD - San Dimas Senior/Community Center

201 E. Bonita Avenue, San Dimas (909) 394-6293

SDSR - San Dimas Swim/Racquet Club

990 W. Covina Blvd., San Dimas (909) 592-1430

SOP - Shadow Oak Park

2121 Shadow Oak Drive, West Covina (626) 965-0328

PLUM - Stanley Plummer Building

245 E. Bonita Avenue, San Dimas (909) 394-6290

VILLA - Villa Colima

19850 Colima, Walnut (909) 595-5030

WALT - Walnut Senior Center

21215 La Puente Road, Walnut (909) 598-6200

WCSCC - West Covina Senior Citizens' Center

2501 E. Cortez Street, West Covina (626) 331-5366

English as Second Language

Classes and programs are available for English language learners at all levels of proficiency, from low literacy to advanced and ready to transition into credit or career pathways. Classes and services include:

- Orientation and assessment for level placement (Pre-Level 1 Level
 6)
- Core level classes focusing on integrated skills (grammar, listening, speaking, reading and writing)
- Skill-focused classes (Speaking Pre, A, B, and C; Writing Pre, A, B, and C)
- Specialized courses (TOEFL preparation, Citizenship preparation)

- Transition to credit and/or career training program (VESL Career Paths)
- · Supplemental ESL workshops, tutoring, and conversation groups
- Academic and career counseling, educational planning, and annual career conference
- Workshops and classroom presentations on college and career options

The ESL office and registration services are located in the Language Center, building 66. For more information, please contact us at (909) 274-5235.

VESL Career Paths (#35611) is a two-semester program designed to prepare advanced ESL students who have <u>COMPLETED Level 5 or Level 6</u> for academic and career success.

VESL is for students who:

- · Need more language and work skills for better job opportunities
- Want a college degree but need to improve English and study skills before transferring to credit
- Have a college degree and work experience from native country, but need to improve their English so they can earn a vocational certificate or pass a board exam
- Need more English and computer skills in order to be more active in their family's life and in their community

Students who complete the VESL program:

- Increase English proficiency
- · Gain experience using computers
- · Learn how to design and give media presentations
- · Develop job search and interviewing skills
- Earn certificates in keyboarding
- · Earn a certificate of completion for VESL 1 and VESL 2

Program Outline

| Course Prefix | Course Name | Units |
|---|----------------------------|-------|
| Required Courses | : | |
| ESL SPKC | ESL - Speaking C | |
| ESL WRTC | ESL - Writing C | |
| BS CNSL5 | Career Life Planning | |
| VOC CS11 | Computer Keyboarding | |
| VOC CSB15 | Microcomputer Applications | |
| Course Prefix Elective Course | Course Name | Units |

VOC CS12 Intermediate Computer Keyboarding

VESL 1 (1st Semester)

- 1. Computer Keyboarding (VOC CS11)
- 2. VESL Speaking C (ESL SPKC)
- 3. VESL Writing C (ESL WRTC)
- 4. Career and Life Planning (BS CNSL5)

VESL 2 (2nd Semester)

- 1. Microcomputer Applications (VOC CSB15)
- 2. English (AMLA <u>or</u> credit English <u>OR</u> an elective (counselor's approval required)

*NOTE: Students are required to take ALL classes in the VESL program together.

COST: The VESL program is free, with the exception of course books and campus parking permit.

ESL - Beginning Level #30375

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need transitioning into intermediate courses or employment. Supplemental courses in speaking, writing and vocational language will assist their progress through the sequence and may be taken along with level classes as needed. Courses are offered all year long, including winter and summer intersessions. Classes are offered days, evenings and weekends. For more information, please call (909) 275-5235.

Program Learning Outcomes

Upon successful completion of this program, students placed within the ESL Pre-Level 1 through ESL Level 2 will be able to successfully complete the sequence of beginning level courses by submitting a comprehensive portfolio that contains multiple measures and evidence of their skill achievement in English language proficiency based on department standardized rubrics for beginning level listening, speaking, reading and, writing.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | | Units |
|-----------------------|-------------------|--|-------|
| ESL PLVL1 | ESL - Pre-Level 1 | | |
| ESL LVL1 | ESL - Level 1 | | |
| ESL LVL2 | ESL - Level 2 | | |
| Recommended Flectives | | | |

Recommended Electives

| (| Course Prefix | Course Name | Units |
|---|---------------|--------------------------------------|-------|
| | ESL SPKA | ESL - Speaking A | |
| | ESL WRTA | ESL - Writing A | |
| | ESL LANG2 | ESL Computer and Language Skills Lab | |

ESL - Intermediate Level #30374

ESL students are placed within the following sequence of intermediate courses according to their English abilities. Students progress through this sequence based on individual need transitioning into advanced courses or employment. Supplemental courses in speaking, writing and vocational language will assist their progress through the sequence and may be taken along with level classes as needed.

Courses are offered all year long, including winter and summer intersessions. Classes are offered days, evenings and weekends.

For more information, please call 909-275-5235.

Required Courses

| - | | | |
|-----------------------|------------------|-------|--|
| Course Prefix | Course Name | Units | |
| ESL LVL3 | ESL - Level 3 | | |
| ESL LVL4 | ESL - Level 4 | | |
| Recommended Electives | | | |
| Course Prefix | Course Name | Units | |
| ESL SPKB | ESL - Speaking B | | |
| ESL WRTB | ESL - Writing B | | |

ESL LANG2 ESL Computer and Language Skills Lab

ESL - Advanced Level

#30376

ESL students are placed within the following sequence of advanced courses according to their English abilities. Students progress through this sequence based on individual need transitioning into credit courses or employment. Supplemental courses in speaking, writing and vocational language will assist their progress through the sequence and may be taken along with level classes as needed.

Courses are offered all year long, including winter and summer intersessions. Classes are offered days, evenings and weekends.

For more information, please call 909-275-5235.

Program Learning Outcomes

Upon successful completion of this program, students placed within the ESL 5 through ESL Level 6 will be able to successfully complete the sequence of advanced level courses by submitting a comprehensive portfolio that contains multiple measures and evidence of their skill achievement in English language proficiency based on department standardized rubrics for advanced level listening, speaking, reading and, writing.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| nequiled courses | | | |
|------------------|---|-------|--|
| Course Prefix | Course Name | Units | |
| ESL LVL5 | ESL - Level 5 | | |
| ESL LVL6 | ESL - Level 6 | | |
| Recommended El | ectives | | |
| Course Prefix | Course Name | Units | |
| ESL SPKC | ESL - Speaking C | | |
| ESL WRTC | ESL - Writing C | | |
| ESL LANG2 | ESL Computer and Language Skills Lab | | |
| ESL LANG3 | English for Special Uses | | |
| ESL TOEFL | TOEFL Preparation (Teaching of English to Foreign Language Learners) | | |
| ESL VHLTH | ESL for Health Professionals | | |

Counseling Services:

The ESL Counseling Team offers academic, career, and personal/ educational counseling to assist current and prospective students in developing their educational plans, coordinating their career goals, and navigating the American educational system. Students are encouraged to visit or call the office for appointments; walk-in appointments are also available. Some services include:

- · Providing orientation and educational planning to noncredit students
- Defining values, skills, aptitudes and abilities for the right career choice
- · Exploring careers of interest and pathways leading to them
- Providing workshops to help transition into credit classes
- · Researching license, degree, and transfer of units/credit
- · Finding referrals to campus and community resources

For more information, call (909) 274-5232 or email at ESLCounseling@mtsac.edu.

Learning Resources:

The ESL Department offers a variety of learning opportunities outside of the traditional classroom in order to help support students with development of effective English communication and lifelong habits of learning. Some of these services include:

- ESL Library reading and writing material for all levels and available for check out
- Workshops on special topics such as learning styles and vocabulary development
- · Language Learning Center open lab for independent practice
- · Tutoring services in grammar and writing

Language Learning Center

Mt. San Antonio College's Language Learning Center (LLC) provides faculty guided, as well as independent, learning opportunities for ESL, AMLA, Arabic, Chinese, French, German, Italian, Japanese, Spanish and Sign Language. Located in the Learning Technology Center, Building 6, room 264, the LLC serves both credit and noncredit students learning a language. Users of the LLC may register year-round. Offerings include:

- · Interactive language software in all supported languages
- DVD's, videos, audio recordings
- · Pronunciation software
- Computer Aided Testing (CATS) for the FFA and other licensing boards

For more information on the LLC, contact (909) 274-4580.

| Course Prefix | Course Name | Units |
|---------------|-------------------------------|-------|
| ESL PLVL1 | ESL - Pre-Level 1 | |
| ESL LVL1 | ESL - Level 1 | |
| ESL LVL2 | ESL - Level 2 | |
| ESL LVL3 | ESL - Level 3 | |
| ESL LVL4 | ESL - Level 4 | |
| ESL LVL5 | ESL - Level 5 | |
| ESL LVL6 | ESL - Level 6 | |
| ESL SPKP1 | ESL-Speaking for Beginners P1 | |
| ESL SPKA | ESL - Speaking A | |
| ESL SPKB | ESL - Speaking B | |
| ESL SPKC | ESL - Speaking C | |
| ESL VHLTH | ESL for Health Professionals | |
| ESL WRTP1 | ESL-Writing for Beginners P1 | |
| ESL WRTA | ESL - Writing A | |
| ESL WRTB | ESL - Writing B | |
| ESL WRTC | ESL - Writing C | |
| CITZ NAT | Citzenship for Naturalization | |

| ESL TOEFL | TOEFL Preparation (Teaching of English to | |
|-----------|---|--|
| | Foreign Language Learners) | |
| BS CNSL5 | Career Life Planning | |

Health Careers

The School of Continuing Education offers courses and certificates in the health careers. Courses are tuition free. However, students are responsible for the purchase of materials.

| Program | Certificates |
|--|---------------------------|
| In Home Support Services (p. 373) | Certificate of Completion |
| Certified Nursing & Acute Care Nursing Assistant (p. 372) | Certificate of Completion |

#24400

This certificate program will prepare participants to work in both longterm and acute care facilities thus providing entry level, diverse, work opportunities in the ever growing health care field. For those planning on entering LVN or RN programs, course content may increase chances for successful admission and completion of nursing program curriculum.

These courses meet the requirements for California state certification as a CNA. The program incorporates processing of the state application and administration of the NATAP test with same day official test results for the written and manual skills examination. Verification of successful passing of the NATAP test permits immediate eligibility for employment.

All coursework can be completed within 11 weeks. Offered in Fall or Spring semesters.

Participants must:

- provide their own transportation and be at least 16 years of age or have a work permit
- be able to meet expenses and responsibilities incurred as part of this program
- demonstrate proficient English/ESL verbal and written communication skills to take written exams, communicate with clients and maintain a safe clinical environment

Accreditation

The Certified Nursing and Acute Care Nursing Assistant program is accredited by the State of California, Health & Human Services, Department of Public Health, Licensing & Certification.

Contact:

State of California, Health & Human Services, Department of Public Health, Licensing & Certification P.O. Box 997377, MS 3000 Sacramento, California 95899-7377 (916) 552-8632 (916) 552-8700 LNCPolicy@cdph.ca.gov

Program Learning Outcomes

· Students will pass the California State Exam for CNA.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|----------------------------------|-------|
| VOC HTH01 | Certified Nursing Assistant | |
| VOC HTH04 | Acute Care CNA | |
| VOC HTH05 | Health Careers Skills Lab (HCRC) | |

Certified Nurse Assistant (CNA) Course Completion Only VOC HTH01

VOC HTH01 is offered for "course completion only" during the Winter and Summer Intersessions. This course provides for employment in long term care only.

For further information, please contact the Health Careers Resource Center, (909) 274-4788.

#33703

This short-term vocational sequence prepares students to become personal care attendants in the home or in a health care facility. This program is specifically for noncredit students who are seeking training in the health field for immediate entry-level employment. Furthermore, this program will also provide foundational health skills for students to enter into more advanced health career programs such as Certified Nursing Assistant (CNA). A career development course is also provided to increase employability and work skills. Students must pass both core courses to earn the In Home Support Services Certificate of Completion.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|----------------------------------|-------|
| BS ABE05 | Career Development | |
| VOC IHSS | In-Home Support Service | |
| _ | | |
| Course Prefix | Course Name | Units |
| VOC HHA | Home Health Aide | 0 |
| VOC HTH01 | Certified Nursing Assistant | 0 |
| VOC HTH04 | Acute Care CNA | 0 |
| VOC HTH05 | Health Careers Skills Lab (HCRC) | 0 |
| VOC IHSS | In-Home Support Service | 0 |

Health Careers Resource Center (HCRC)

The Health Careers Resource Center (HCRC) provides a state-of-the-art learning lab and resources to increase the student's knowledge, learn new skills, and reinforce previously learned skills.

HCRC available services include:

- · RN assistance in clinical skills practice and performance evaluation
- Medical and hospital equipment; supplies; manikins; simulators; training aids for hands-on demonstrations and application of basic, intermediate, and advanced skills
- · Health skills performance update/evaluation
- Clinical simulations for Med-Surg, Psych, OB, Peds, Perioperative, Critical Care
- METI/CAE Adult, Child, and Infant Human Patient Simulators
- · Gaumard Birthing Simulator

The HCRC is available to Mt. SAC credit and noncredit health career students. Prior to utilization of the HCRC, students must pre-register in the School of Continuing Education's Registration Office located in Building 40, Room 104. Registration receipt and current student identification must be brought to the HCRC on the first visit to complete the registration process.

Orientation

The School of Continuing Education Health Careers' Programs require potential students to attend an orientation prior to the start of each cohort. More information is available at the School of Continuing Education office in Building 40, room 104 or by calling (909) 274-4220.

Requirements

Health career students enrolling in Certified Nursing Assistant (CNA) or In Home Support Services (IHSS) must meet specific state requirements related to security and physical health. This information is provided at the mandatory orientations or please call (909) 274-4788 for CNA or (909) 274-4220 for IHSS.

Registration

CNA: Once a student has attended the orientation they will need to complete a background check and get a physical examination. Students who successfully meet those requirements will then register for the CNA program through the Health Careers Resource Center.

IHSS: Once a student has attended the orientation they then can complete registration by filling out a registration card once registration opens. The class fills up quickly and is done on a first-come first-serve basis. Students enrolling in the In Home Support Services (IHSS) program will also be required to take the TABE D9 Reading Survey. The test is free and can be taken on the same day as the orientation. This test is used for information purposes only to assist the student in identifying additional areas in which support may be needed to be successful in the program.

Fees and Expenses

There is no tuition for noncredit vocational courses. Some courses, however, include a fee for materials provided to students. Books and supplies needed for a class are the responsibility of the student. All students who park on the Mt. SAC campus must have a valid parking permit. Student parking permits may be purchased at the Bursar's Office. One-day parking permits may be purchased at various parking lots on campus. See the campus map for details.

Counseling Services

The School of Continuing Education has counselors available to assist students interested in earning Certificates of Completion. Students can make appointments with the counselors, and counselors will visit the short-term vocational classes throughout the session for career and education planning. In addition, a career center is available for students to use, both to gather information on specific careers as well as to interact with the counselor who is available at the career center. *For more information or to schedule an appointment with a counselor, please call (909)* 274-4845.

Career Development

Career development is part of all short-term vocational programs. In the courses, students will have the opportunity to develop their "soft skills" such as communication and collaboration. Students will also work on refining their resume and practice interviews.

Students wishing to complete a noncredit certificate program in one of the vocational areas of study must apply to the Continuing Education Division office, building 40, room 104. For further information, please select the link below or call (909) 274-4220.

Fee-Based Health Career Certificates

The School of Continuing Education offers fee-based programs that prepare the student for the certificates and corresponding examinations in the given area. These include:

- Mammography Initial Training
- Medical Insurance Billing Specialist
- Phlebotomy Technician
- RN Re-Entry into Practice

For more information on these programs, please refer to the School of Continuing Education Community Education Schedule of Classes each semester of call (909) 274-4220.

Help

For more information regarding the School of Continuing Education Certificates of Completion, please call the office at (909) 274-4220.

How to Complete a Certificate

Certificates of Completion

The School of Continuing Education offers short-term vocational certificates of completion in a few areas. Generally, these certificates can be completed anywhere between six weeks and six months. These certificates prepare students to work in certain fields and also serve as the first step in their career ladder to higher level positions requiring additional schooling.

How to Complete and Obtain a Certificate

In order for students to receive a Certificate of Completion, the student must complete the following:

- · Register for the desired courses (and pay material fees if applicable)
- Satisfactorily complete coursework, papers, projects, take and pass all exams with the equivalent of a "C" grade as outlined by each individual course syllabus.
- When all courses are completed, submit a request to the School of Continuing Education in Building 40, room 104.
- The office will verify that all requirements have been met and prepare the Certificate of Completion for the student to pick up.

High School Equivalency GED

Adult Basic Education offers courses and two ways to prepare for a California HS Equivalency Certificate. On-campus preparation for the GED (General Education Development) or HiSET (High School Equivalency Testing) is available in the Adult Basic Education Lab and through Distance Learning. Students can prepare in the various subjects and learning plans are designed for students to earn the highest possible exam scores.

For more information on the program and how to enroll, please visit our website at:

High School Equivalency/GED Preparation (http://www.mtsac.edu/ continuinged/noncredit/abe/ged_prep.html)

HSE-GED Preparation

#30778

Improve the academic skills needed for passing the General Education Development (GED) exam. Math, reading, writing, science and social studies. Progress in a sequence based on individual need.

Program Learning Outcomes

Upon successful completion of this certificate, students will be prepared to pass the High School Equivalency exams and successfully transition to credit or employment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Coursework

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BS GEDMA | GED Prep: Mathematics | 0 |
| BS GEDRD | | 0 |
| BS GEDSC | GED Prep: Science | 0 |
| BS GEDSS | GED Preparation: Social Studies | 0 |
| BS GEDWR | GED Preparation: Language Arts, Writing | 0 |

High School Programs

Adult HS Diploma/HS Referral

Adult students can earn credits toward completion of a **high school diploma** under the guidance of an instructor and support staff. Coursework is offered in small group instruction, computer aided instruction, and individual study. For more information on the requirements for the diploma, please visit: Adult High School Diploma (http://www.mtsac.edu/continuinged/noncredit/highschool)

High School Referral (HSR) is a self-paced, guided-study program designed to allow high school students the opportunity to retake classes to earn a higher grade and make up credits. Students must be currently enrolled in high schoool and have parent and counselor consent to participate. For more information on the HSR program, please visit: High School Referral (http://www.mtsac.edu/continuinged/noncredit/ highschool/hs_referral.html)

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| BSHS ALG1 | High School Algebra 1 | |
| BSHS ALG2 | High School Algebra 2 | |
| BSHS ART1 | High School Art and Creative Expression | |
| BSHS ART2 | HIgh School Art 2 | |
| BSHS BIO | High School Biology | |
| BSHS CHEM | High School Chemistry | |
| BSHS CIV | High Schools Civics | |
| BSHS CPTC | High School Computer Technology | |
| BSHS EASC | High School Earth Science | |
| BSHS ECON | High School Economics | |
| BSHS ENG1 | High School English 1 | |
| BSHS ENG2 | High School English 2 | |
| BSHS ENG3 | High School English 3 | |
| BSHS ENG4 | High School English 4 | |
| BSHS GEOG | High School Geography | |
| BSHS GEOM | High School Geometry | |
| BSHS HLTH | High School Health | |
| BSHS INMA1 | HS Integrated Math 1 | |
| BSHS INMA2 | Integrated Math 2 | |

| BSHS INMA3 | HS Integrated Math 3 |
|-------------|---|
| BSHS KEY | High School Typing Keyboarding |
| BSHS MUSC | High School Music Appreciation |
| BSHS PHSC | High School Physical Science |
| BSHS PLNG | High School Planning and Guidance |
| BSHS PREA | High School Pre-Algebra |
| BSHS PSY | High School Psychology |
| BSHS READ | High School Reading |
| BSHS SOC | High School Sociology |
| BSHS SPN1 | High School Spanish 1 |
| or BSHS SPI | NSS Spanish for Native Speakers 1 |
| BSHS SPN2 | High School Spanish 2 |
| or BSHS SPI | High School Spanish for Native Speakers 2 |
| BSHS SSK | High School Study Skills |
| BSHS USH | High School U.S. History |
| BSHS WHS | High School World History |
| BSHS WREX | High School Expository Writing |
| BSHS WRIT1 | Literature/Writing 1 |
| BSHS WRIT2 | Literature and Writing Fundamentals 2 |
| | |

Vocational Programs

The School of Continuing Education offers courses and certificates in vocational areas including health careers, electronics, business, welding, and others. Some of these certificates, such as Certified Nursing Assistant (CNA) and Electronics Systems Technology (EST) are shortterm by design to provide you with the skills and knowledge necessary to work in a particular field.

Additionally, many credit vocational classes offer a limited number of seats available to Continuing Education students for noncredit. Students may enroll in these classes in accordance with procedures outlined in the School of Continuing Education class schedule. Students will not receive college credit.

Select options in left navigation for information about individual programs.

Vocational Programs Website (http://www.mtsac.edu/continuinged/ noncredit/vocational)

Registration

For Continuing Education (noncredit) courses and programs, admission and registration are completed using a registration card. Students may register by coming to the School of Continuing Education office at building 40, room 104. For more information please call (909) 274-4220.

Fees and Expenses

There is no tuition for noncredit vocational courses. Some courses, however, include a fee for materials provided to students. Books and supplies needed for a class are the responsibility of the student. All students who park on the Mt. SAC campus must have a valid parking permit. Student parking permits may be purchased at the Bursar's Office. One-day parking permits may be purchased at various parking lots on campus. See the campus map for details.

Counseling Services

The School of Continuing Education has counselors available to assist students interested in earning Certificates of Completion or general course information.

For more information or to schedule an appointment with a counselor, please call (909) 274-4845.

Fee-Based Certificate Programs

The School of Continuing Education also offers fee-based Certificate Programs. These include:

- Bookkeeping Preparation
- CPR and First Aid
- Makeup Artistry
- Medical Insurance Billing Specialist
- Phlebotomy Technician
- RN Re-Entry into Practice

Specific certificate content and more information can be found by visiting www.communityed.mtsac.edu or by calling (909) 274-4220.

How to Complete a Certificate

Certificates of Completion

The School of Continuing Education offers short-term vocational certificates of completion in a few areas. Generally, these certificates can be completed anywhere between six weeks and six months. These certificates prepare students to work in certain fields and also serve as the first step in their career ladder to higher level positions requiring additional schooling.

How to Complete and Obtain a Certificate

In order for students to receive a Certificate of Completion, the student must complete the following:

- · Register for the desired courses (and pay material fees if applicable)
- Satisfactorily complete coursework, papers, projects, take and pass all exams with the equivalent of a "C" grade as outlined by each individual course syllabus.
- When all courses are completed, submit a request to the School of Continuing Education in Building 40, room 104.
- The office will verify that all requirements have been met and prepare the Certificate of Completion for the student to pick up.

Adult and Continuing Education Programs

| A | |
|---------------------------|--|
| Accounting - Bookkeeping | |
| Accounting - Computerized | |
| Accounting - Payroll | |

В

| Basic Career Readiness | |
|-------------------------------|--|
| Basic Skills | |
| Business Management - Level 1 | |
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| Business Management - Level 3 | |

С

| Certified Nursing and Acute Care Nursing Assistant | 79 |
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Ε

| ESL - Advanced Level | |
|---|-----|
| ESL - Beginning Level | |
| ESL - Intermediate Level | 371 |
| Electronic Assembly and Fabrication | |
| Electronic Systems Technology - Level 1 | |
| Electronic Systems Technology - Level 2 | |
| Electronics Communications | |
| Electronics Technology | |
| Electronics and Computer - Engineering Technology | |
| Electronics: Industrial Systems | |
| F Floral Design | |
| G HSE-GED Preparation | |

Η

| Horse Ranch Management | 82 |
|---------------------------|----|
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| 7 7 7 | In Home Support Services | |
|------------------|-------------------------------------|--|
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| 8 8 8 | M MasterCAM | |
| 9 | N Nursery Production Management | |
| 9 0 | 0 Office Computer Applications | |
| 1 1 1 | P Pet Science | |
| 0 0 0 1 | R Retail Management - Level 1 | |
| 1 2 | S Secondary Education | |
| 2 | Small Business Management - Level 3 | |
| 4 | Welding | |

| ••• | Welding | .388 |
|----------|---|------|
| | Welding: Automotive Welding, Cutting & Modification | .388 |
| 82 | Welding: Gas Tungsten Arc, Welding | .388 |
| 82 83 | Welding: Semiautomatic Arc, Welding | .389 |

VOC: Accounting - Bookkeeping

#24089

The Bookkeeping Certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/accounting field. Common duties performed in this field are posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis. The sequence can be completed in one year, and courses are offered Fall and Spring semesters.

Program Learning Outcomes

- Students will explain the concept of double-entry accounting within the categories of asset, liability, owner's equity, revenue and expense account.
- Students will use computerized accounting software to process accounting transactions.
- Students will analyze business transactions, and journalize and post transactions to ledger accounts.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Coursework

| C | Course Prefix | Course Name | Units |
|---------------------------------|---------------|---|-------|
| | VOC BA07 | Principles of Accounting - Financial | |
| | or VOC BA7 | 2Bookkeeping - Accounting | |
| | VOC BA75 | Using Microcomputers in Financial Accounting | |
| | VOC BA76 | Microcomputers in Managerial Accounting | |
| or VOC BA68Business Mathematics | | | |

VOC: Accounting - Computerized

#24246

The Computerized Accounting Certificate provides the student with basic accounting skills and knowledge together with additional training in computer applications common to the accounting industry. This certificate program prepares the student for an entry-level position as a computerized accounting clerk. Common duties performed in this field are utilization of accounting software programs for posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis.

Program Learning Outcomes

- Students will process collections from customers and update accounts receivable.
- · Students will prepare financial statements.
- Students will solve managerial accounting problems with Excel software.
- Students will develop the ability to relate material from each course completed to their current and future professional needs, even if these needs fall into a different discipline.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Column 1 | Column 2 | | |
|--|--|-------|--|
| This certificate requires: | | | |
| | Completion of the Accounting - Bookkeeping coursework | | |
| PLUS | | | |
| Completion of the Computerized co | 5 | | |
| Required Cours | ework | | |
| Course Prefix | Course Name | Units | |
| Accounting - Bookkeeping Coursework | | | |
| VOC BA07 | Principles of Accounting - Financial | | |
| or VOC BA72Bookkeeping - Accounting | | | |
| | 1 3 3 | | |
| VOC BA75 | Using Microcomputers in Financial Accounting | | |
| | Using Microcomputers in Financial | | |
| VOC BA75 VOC BA76 | Using Microcomputers in Financial Accounting | | |
| VOC BA75 VOC BA76 | Using Microcomputers in Financial Accounting Microcomputers in Managerial Accounting | Units | |
| VOC BA75 VOC BA76 or VOC BA Course Prefix | Using Microcomputers in Financial Accounting Microcomputers in Managerial Accounting 68Business Mathematics | Units | |
| VOC BA75 VOC BA76 or VOC BA Course Prefix | Using Microcomputers in Financial Accounting Microcomputers in Managerial Accounting 68 Business Mathematics Course Name | Units | |

VOC CSB51 Microsoft PowerPoint

VOC: Accounting - Payroll

Microsoft Word

#24074

VOC CSB31

The Payroll Certificate combines accounting skills with specialized training in payroll preparing the student for entry-level positions within the payroll segment of accounting. Common duties performed include payroll tax reporting, maintenance of payroll accounting systems and posting payroll transactions to journals/ledgers.

Program Learning Outcomes

Upon successful completion of this program, a student will:

- Identify payroll records required by the employer in preparation for filing tax forms for Social Security, federal and state income tax, state disability benefits, and federal and state unemployment.
- · Calculate wages and withholding amounts in payroll problems.
- Assemble payroll record keeping requirements for employers under current state and federal laws.
- Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Certificate Requirements

| Column 1 | Column 2 |
|--|----------|
| This certificate requires: | |
| Completion of the Accounting - Bookkeeping coursework | |
| PLUS | |
| Completion of the Accounting - Payroll coursework | |

Required Coursework

| Course Prefix | Course Name | Units |
|------------------|---|-------|
| Accounting - Boo | okkeeping Coursework | |
| VOC BA07 | Principles of Accounting - Financial | |
| or VOC BA7 | 2Bookkeeping - Accounting | |
| VOC BA75 | Using Microcomputers in Financial Accounting | |
| VOC BA76 | Microcomputers in Managerial Accounting | |
| or VOC BA6 | 58Business Mathematics | |
| Course Prefix | Course Name | Units |
| VOC BA70 | Payroll and Tax Accounting | |
| VOC BA75 | Using Microcomputers in Financial Accounting | |
| or VOC BA7 | 6 Microcomputers in Managerial Accounting | |

VOC: Business Management - Level 1

#24108

The Business Management – Level 1 Certificate is designed to introduce the student to the role of management in business. Management is the efficient use of human and capital resources to accomplish organizational objectives. Students will be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. Upon completion of the Business Management – Level 1 Certificate students may qualify for an entry-level management position in California's diverse economy.

Program Learning Outcomes

- Students will list and explain the foundations upon which business is built and the economic challenges facing the United States.
- Students will apply management concepts and functions.
- · Students will develop a working knowledge of marketing terminology

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| VOC BM20 | Principles of Business | |
| VOC BM61 | Business Organization and Management | |
| VOC BS36 | Principles of Marketing | |

VOC: Business Management - Level 2

#24110

This certificate builds upon the Level 1 Certificate to provide students with proven business tools that will enhance their management careers. Students will be exposed to projects and business simulations that will lead to measurable successes. Business presentations, business planning, team building, conflict resolution, and computer use are core skills developed in this certificate.

Program Learning Outcomes

- Students will define organizational culture, socialization and mentoring.
- · Students will analyze social perception.
- Students will explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

| Program Requirements | | |
|--|--------------------------------------|-------|
| Column 1 | Column 2 | |
| This certificate requires: | | |
| Completion of the Management - L | ne Business .evel 1 coursework | |
| PLUS | | |
| Completion of the Management - L | ne Business .evel 2 coursework | |
| Required Courses | | |
| Course Prefix | Course Name | Units |
| Business Management - Level 1 Coursework | | |
| VOC BM20 | Principles of Business | |
| VOC BM61 | Business Organization and Management | |
| VOC BS36 | Principles of Marketing | |
| Course Prefix | Course Name | Units |
| Business Manag | gement - Level 2 Coursework | |
| VOC BM60 | Human Relations in Business | |
| VOC BM62 | Human Resource Management | |
| VOC CSB15 | Microcomputer Applications | |

VOC: Business Management - Level 3

#24249

Upon completion of the Business Management – Level 3 Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. Students will have a strategic perspective of production, marketing, accounting, international business and human resources. Completion of the Business Management – Level 3 Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a management career.

Program Learning Outcomes

- Students will describe the basic accounting system and how it is used to serve business needs.
- Students will define and outline the key principles of continuous quality management.
- Students will identify how governments influence trade.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Program Requirements

| Column 1 | Column 2 |
|---|----------|
| This certificate requires: | |
| Completion of the Business Management - Level 1 coursework | |
| PLUS | |
| Completion of the Business Management - Level 2 coursework | |
| PLUS | |
| Completion of the Business Management - Level 3 coursework | |

 Required Courses

 Course Prefix
 Course Name

 Business Management - Level 1 Coursework
 VOC BM20

 VOC BM20
 Principles of Business

 VOC BM61
 Business Organization and Management

 VOC BS36
 Principles of Marketing

| | 1 5 | |
|----------------|--|-------|
| Course Prefix | Course Name | Units |
| Business Manag | ement - Level 2 Coursework | |
| VOC BM60 | Human Relations in Business | |
| VOC BM62 | Human Resource Management | |
| VOC CSB15 | Microcomputer Applications | |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name Jement - Level 3 Coursework | Units |
| | | Units |
| Business Manag | jement - Level 3 Coursework | Units |

VOC: Certified Nursing and Acute Care Nursing Assistant

#24400

This certificate program will prepare participants to work in both longterm and acute care facilities thus providing entry level, diverse, work opportunities in the ever growing health care field. For those planning on entering LVN or RN programs, course content may increase chances for successful admission and completion of nursing program curriculum.

These courses meet the requirements for California state certification as a CNA. The program incorporates processing of the state application and administration of the NATAP test with same day official test results for the written and manual skills examination. Verification of successful passing of the NATAP test permits immediate eligibility for employment.

All coursework can be completed within 11 weeks. Offered in Fall or Spring semesters.

Participants must:

- provide their own transportation and be at least 16 years of age or have a work permit
- be able to meet expenses and responsibilities incurred as part of this program
- demonstrate proficient English/ESL verbal and written communication skills to take written exams, communicate with clients and maintain a safe clinical environment

Program Learning Outcomes

· Students will pass the California State Exam for CNA.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

Units

| Course Prefix | Course Name | Units |
|---------------|----------------------------------|-------|
| VOC HTH01 | Certified Nursing Assistant | 0 |
| VOC HTH04 | Acute Care CNA | 0 |
| VOC HTH05 | Health Careers Skills Lab (HCRC) | 0 |

<u>Certified Nurse Assistant (CNA) Course Completion Only</u> VOC HTH01 (http://catalog.mtsac.edu/archive/2017-2018/search/?P=VOC %20HTH01)

VOC HTH01 (http://catalog.mtsac.edu/archive/2017-2018/search/? P=VOC%20HTH01) is offered for "course completion only" during the Winter and Summer Intersessions. This course provides for employment in long term care only.

For further information, please contact the Health Careers Resource Center, (909) 274-4788.

The Certified Nursing and Acute Care Nursing Assistant program is accredited by the State of California, Health & Human Services, Department of Public Health, Licensing & Certification.

Contact:

State of California, Health & Human Services, Department of Public Health, Licensing & Certification P.O. Box 997377, MS 3000 Sacramento, California 95899-7377 (916) 552-8632 (916) 552-8700

LNCPolicy@cdph.ca.gov

VOC: Computer and Networking Technology

#24059

This certificate is intended to prepare students to enter the computer and networking fields as service technicians with foundations in basic electricity and electronics, operating systems, computer service and troubleshooting, and preparation for the A+ certification examination.

Program Learning Outcomes

- Students will be employed or seeking employment in the field or a related field.
- · Students will be technically competent.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC CNT50 | PC Servicing | |
| VOC CNT52 | PC Operating Systems | |
| VOC CNT54 | PC Troubleshooting | |
| VOC CNT60 | A+ Certification Preparation | |
| VOC EL11 | Technical Applications in Microcomputers | |
| or VOC CSB | 1 Microcomputer Applications | |
| VOC EL50A | Electronic Circuits (DC) | |

| VOC EL50B | Electronic Circuits (AC) |
|-----------|--------------------------|
| VOC EL56 | Digital Electronics |

VOC: Computer Systems Technology

#24284

The Computer Systems Technology curriculum encompasses advanced coursework in computer systems circuitry, including microcontrollers and microprocessors.

Program Learning Outcomes

- Students will be employed or actively seeking employment in the field or a related field.
- · Students will be technically proficient.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC EL11 | Technical Applications in Microcomputers | |
| VOC EL12 | Computer Simulation and Troubleshooting | |
| VOC EL50A | Electronic Circuits (DC) | |
| VOC EL50B | Electronic Circuits (AC) | |
| VOC EL51 | Semiconductor Devices & Circuits | |
| VOC EL56 | Digital Electronics | |
| VOC EL61 | Electronic Assembly and Fabrication | |
| VOC EL74 | Microcontroller Systems | |
| VOC TCH60 | Customer Relations for the Technician | |

VOC: Electronic Assembly and Fabrication

#24162

This certificate prepares students to enter the electronics field as assembly and fabrication technicians. The program provides a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for both through-hole and surface mount devices (SMD), including skills for various types of cabling and connections.

Program Learning Outcomes

• Students will design, fabricate, and populate a through-hole circuit board.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| С | ourse Prefix | Course Name | Units |
|---|--------------|---|-------|
| | VOC EL50A | Electronic Circuits (DC) | |
| | VOC EL50B | Electronic Circuits (AC) | |
| | or VOC EST5 | Electrical Fundamentals for Cable Installations | |
| | VOC EL61 | Electronic Assembly and Fabrication | |
| | VOC EL62 | Advanced Surface Mount Assembly | |

Back to Vocational Programs (http://catalog.mtsac.edu/ archive/2017-2018/programs/noncredit-programs/programsaz/ vocational-programs)

VOC: Electronic Systems Technology - Level 1

#24363

This certificate program provides job skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks (business and home), home theatre, home automation, and home security systems (integrated home systems). Typical job titles in these areas are data or cable technician, low-voltage wiring technician, home theatre installer, consumer electronics service technician and security system installer. Level 1 certification develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for voice, video and data, and basic computer skills in word processing, spreadsheets, database and the Internet.

Program Learning Outcomes

- Students will demonstrate technical competence by constructing a complete wired telecommunications network using electronic test equipment and hand tools.
- Students will be employed or seeking employment in the field or a related field.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC EST50 | Electrical Fundamentals for Cable Installations | |
| VOC EST52 | Fabrication Techniques for Cable Installations | |
| VOC EST54 | Cable and Wiring Standards | |
| VOC EL11 | Technical Applications in Microcomputers | |
| or VOC CSB | 1 Microcomputer Applications | |

Back to Vocational Programs (http://catalog.mtsac.edu/ archive/2017-2018/programs/noncredit-programs/programsaz/ vocational-programs)

VOC: Electronic Systems Technology - Level 2

#24416

This Level 2 certificate builds on the skills and concepts learned in level 1 and adds customer relations (soft skills) and the installation, calibration, setup, maintenance and troubleshooting of home theater systems, home automation and home security systems.

Program Learning Outcomes

- Students will demonstrate technical competence in the areas of home security, home theater, and consumer electronic device repair.
- Students will be employed or seeking employment in the field or a related field.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Column 1 | Column 2 |
|--|----------|
| Certificate Requirements: | |
| Completion of the Electronic Systems Technology - Level 1 Certificate coursework | |
| PLUS | |
| Completion of the Electronic Systems Technology - Level 2 coursework | |
| | |

Required Courses

| Course Prefix | Course Name | Units |
|--|--|-------|
| Electronic Syster | ns Technology - Level 1 Coursework | |
| VOC EST50 | Electrical Fundamentals for Cable Installations | |
| VOC EST52 | Fabrication Techniques for Cable Installations | |
| VOC EST54 | Cable and Wiring Standards | |
| VOC EL11 | Technical Applications in Microcomputers | |
| or VOC CSB1 M icrocomputer Applications | | |
| Course Prefix | Course Name | Units |

Electronic Systems Technology - Level 2 Coursework

| VOC EST56 | Home Theater, Home Integration & Home Security Systems |
|-----------|---|
| VOC EST62 | Electronic Troubleshooting 1 |
| VOC TCH60 | Customer Relations for the Technician |
| VOC EST64 | Electronic Troubleshooting 2 |

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VOC: Electronics Communications

#24210

In addition to courses in electronics fundamentals, the Electronics Communications certificate program encompasses the study of both wire-based and wireless forms of analog and digital communications systems. Topics include amplitude and frequency modulation, multiplexing, antennas, transmission lines, and radio-wave propagation, as well as microwave systems, including radar and satellite operations.

Program Learning Outcomes

- Students will be technically competent.
- Students will be employed or seeking employment in the field or a related field.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC EL11 | Technical Applications in Microcomputers | |
| VOC EL12 | Computer Simulation and Troubleshooting | |
| VOC EL50A | Electronic Circuits (DC) | |
| VOC EL50B | Electronic Circuits (AC) | |
| VOC EL51 | Semiconductor Devices & Circuits | |
| VOC EL53 | Communications Systems | |
| VOC EL55 | Microwave Communications | |
| VOC EL56 | Digital Electronics | |
| VOC EL61 | Electronic Assembly and Fabrication | |
| VOC TCH60 | Customer Relations for the Technician | |

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VOC: Electronics Technology

#24073

This one-year program covers the fundamentals of electronics technology. These core courses provide the necessary skills for those seeking entry-level employment as electronics technicians without areas of specialization. A course in customer-relations training is also included.

Program Learning Outcomes

- Students will be technically competent.
- Students will be employed or seeking employment in the field or a related field.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| - Course Prefix | Course Name | Units |
|--------------------|--|-------|
| VOC EL11 | Technical Applications in Microcomputers | |
| VOC EL12 | Computer Simulation and Troubleshooting | |
| VOC EL50A | Electronic Circuits (DC) | |
| VOC EL50B | Electronic Circuits (AC) | |
| VOC EL51 | Semiconductor Devices & Circuits | |
| VOC EL56 | Digital Electronics | |
| VOC EL61 | Electronic Assembly and Fabrication | |
| VOC TCH60 | Customer Relations for the Technician | |
| | | |

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VOC: Electronics and Computer Engineering Technology

#24171

This certificate program prepares individuals either for initial employment or for enhancement of existing skills in the electronics field, or for transfer into B.S. programs in Electronics Technology or Industrial Technology. Students are exposed to core topics such as components and circuits as well as coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls.

Program Learning Outcomes

- Students will show evidence of demonstrating higher-level thought processes by relating specific tasks to more general principles.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).
- Students will apply knowledge of electronic principles to the areas of communications, industrial electronics, and microcontrollers.
- Students will demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- Students will quantitatively determine unknown electrical parameters from given or measured values and use these results to assess or troubleshoot faults in circuit and system operation.
- Students will communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.
- Students will connect concepts learned in introductory courses to more general principles applicable in the employment context.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC EL11 | Technical Applications in Microcomputers | |
| VOC EL12 | Computer Simulation and Troubleshooting | |
| VOC EL50A | Electronic Circuits (DC) | |
| VOC EL50B | Electronic Circuits (AC) | |
| VOC EL51 | Semiconductor Devices & Circuits | |
| VOC EL53 | Communications Systems | |
| VOC EL54A | Industrial Electronics | |
| VOC EL54B | Industrial Electronic Systems | |
| VOC EL55 | Microwave Communications | |
| VOC EL56 | Digital Electronics | |
| VOC EL61 | Electronic Assembly and Fabrication | |
| VOC EL74 | Microcontroller Systems | |
| VOC TCH60 | Customer Relations for the Technician | |

Recommended Electives

| Course Prefix | Course Name | Units |
|---------------|---------------------------------|-------|
| VOC EL62 | Advanced Surface Mount Assembly | |
| VOC EL76 | FCC GROL Preparation | |

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VOC: Electronics: Industrial Systems

#24319

In addition to courses in electronics fundamentals, the Industrial Systems curriculum encompasses advanced coursework in industrial electronics, including electronic devices for industrial and motor controls. The

curriculum culminates in the study of programmable logic controls (PLCs) using the Allen-Bradley series of PLCs running Windows ladder logic software.

Program Learning Outcomes

- · Students will be technically competent.
- Students will be employed or seeking employment in the field or a related field.
- Students will employ polar and/or rectangular notation to determine the magnitude and phase shift of an unknown circuit parameter (voltage, current, impedance, and/or power).

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC EL11 | Technical Applications in Microcomputers | |
| VOC EL12 | Computer Simulation and Troubleshooting | |
| VOC EL50A | Electronic Circuits (DC) | |
| VOC EL50B | Electronic Circuits (AC) | |
| VOC EL51 | Semiconductor Devices & Circuits | |
| VOC EL54A | Industrial Electronics | |
| VOC EL54B | Industrial Electronic Systems | |
| VOC EL56 | Digital Electronics | |
| VOC EL61 | Electronic Assembly and Fabrication | |
| VOC TCH60 | Customer Relations for the Technician | |
| | | |

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VOC: Floral Design

#24242

This sequence is offered in the evening only on campus and at offcampus locations and can be completed in two years. Students completing all three courses will have skills and knowledge to seek jobs in floral design beyond entry-level positions, i.e., first-line supervision and/ or management and Floral Designers.

Program Learning Outcomes

• Students completing the Floral Design Certificate will be prepared to be employed in the floral design industry.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|-----------------|-------|
| VOC AGR25 | Floral Design 1 | |
| VOC AGR26 | Floral Design 2 | |
| VOC AGR27 | Floral Design 3 | |

VOC: Horse Ranch Management

#24340

This certificate program is designed to give students basic skills on horse ranches and agriculture sales and services.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------------------|-------|
| VOC AGN02 | Animal Nutrition | |
| VOC AGN94 | Animal Breeding | |
| VOC AGL16 | Horse Production and Management | |
| VOC AGL18 | Horse Ranch Management | |
| VOC AGL19 | Horse Hoof Care | |
| VOC AGL96 | Animal Sanitation and Disease Control | |
| VOC AGL97 | Artificial Insemination of Livestock | |

VOC: Human Resource Management

#24320

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. This certificate may aid in the student's search for an entrylevel job in the business world.

Program Learning Outcomes

- Students will list and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Students will apply management concepts and functions.
- Students will explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| (| Course Prefix | Course Name | Units |
|---|---------------|--------------------------------------|-------|
| | VOC BM20 | Principles of Business | |
| | VOC BM61 | Business Organization and Management | |
| | VOC BM62 | Human Resource Management | |

VOC: In Home Support Services

This short-term vocational sequence prepares students to become personal care attendants in the home or in a health care facility. This program is specifically for noncredit students who are seeking training in the health field for immediate entry-level employment. Furthermore, this program will also provide foundational health skills for students to enter into more advanced health career programs such as Certified Nursing Assistant (CNA). A career development course is also provided to increase employability and work skills. Students must pass both core courses to earn the In Home Support Services Certificate of Completion.

Program Learning Outcomes

- · Students will be proficient in personal care tasks.
- Students will be employed or seeking employment in the field or a related field.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Pr | efix | Course Name | Units |
|-----------|------|-------------------------|-------|
| BS ABE | 05 | Career Development | |
| VOC IH | SS | In-Home Support Service | |

VOC: Interior Design

#31012

The primary purpose of this certificate is to prepare students with a broad overview and solid foundation in the area of interior design and related fields. This certificate may lead to new opportunities and provide students with the groundwork upon which to build a career.

Program Learning Outcomes

- Students will successfully use critical thinking in the utilization of materials in a space.
- · Students will accurately specify materials based on use.
- Students will successfully demonstrate craftsmanship skills in the presentation of materials.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Certificate Requirements

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC ID10 | Intro to Interior Design | |
| VOC ID10L | Introduction to Interior Design Laboratory | |
| VOC ID12 | Materials and Products for Interior Design | |
| VOC ID14 | History of Furniture and Decorative Arts | |

International Business – Level 1

#24107

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. The program also prepares the student as a business management generalist for companies conducting international trade. This program will afford career opportunities for entry-level employment in international sales and marketing.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------------|-------|
| VOC BM20 | Principles of Business | |
| VOC BM51 | Principles of Internation Business | |
| VOC BS36 | Principles of Marketing | |

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Program Learning Outcomes

- · Students will identify how governments influence trade.
- Students will list and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Students will develop a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

International Business – Level 2

#24431

In the International Business – Level 2 Certificate, the student will learn methods and approaches to managing the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. Students active in the workforce will acquire new skills that are highly desirable in a fast-paced dynamic global environment, with an emphasis on the small business perspective.

Program Requirements

| Column 1 | Column 2 |
|--|----------|
| This certificate requires: | |
| Completion of the International Business - Level 1 coursework | |
| PLUS | |
| Completion of the International Business - Level 2 coursework | |
| | |

Required Courses:

| Course Prefix | Course Name | Units |
|------------------|--|-------|
| International Bu | siness - Level 1 Coursework | |
| VOC BM20 | Principles of Business | |
| VOC BM51 | Principles of Internation Business | |
| VOC BS36 | Principles of Marketing | |
| | | |
| Course Prefix | Course Name | Units |
| | Course Name siness - Level 2 Coursework | Units |
| | | Units |

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Program Learning Outcomes

- · Students will apply management concepts and functions.
- · Students will describe business planning for small business.
- Students will discuss the legal forms of business ownership

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

VOC: Licensed Welder

#24223

This certificate is designed to prepare students for entry-level employment in the broad field of welding, including manufacturing, construction, fabrication and repair. Through theoretical and handson skills coursework, students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

Program Learning Outcomes

- Students will be employed or seeking employment in the field or a related field.
- Students will be technically competent.

· Students will identify print views, lines and dimensioning methods.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Cours | e Prefix | Course Name | Units |
|-------|----------|--|-------|
| VO | C WL40 | Introduction to Welding | |
| VO | C WL50 | Oxyacetylene Welding | |
| VO | C WL51 | Basic Electric Arc Welding | |
| VO | C WL53A | Welding Metallurgy | |
| VO | C WL60 | Print Reading and Computations for Welders | |
| VO | C WL70A | Beginning Arc Welding | |
| VO | C WL70B | Intermediate Arc Welding | |
| VO | C WL70C | Certification for Welders | |
| VO | C WL80 | Construction Fabrication and Welding | |
| VO | C WL81 | Pipe and Tube Weldinhg | |
| | | | |

VOC: Livestock Production Management

#24057

This certificate is designed to give students basic skills in livestock production management for employment opportunities on farms, ranches and agriculture sales and services.

Program Learning Outcomes

- · Students will be technically proficient.
- Students will design a comprehensive production/business plan for various livestock species.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--------------------------------------|-------|
| VOC AGL14 | Swine Production | |
| VOC AGL17 | Sheep Production | |
| VOC AGL30 | Beef Production | |
| VOC AGL34 | Livestock Judging and Selection | |
| VOC AGL97 | Artificial Insemination of Livestock | |

VOC: MasterCAM

#24212

This certificate provides a strong background in MasterCAM 2-D and 3-D, and SolidWorks software packages along with the necessary machine shop theory and practice to input sound functional data into the CAM system.

Program Learning Outcomes

- Students will be employed or seeking employment in the field or a related field.
- · Students will be technically competent.
- Students will demonstrate the ability to create a toolpath for an industry representative part from a 2D print using CAM software.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------|-------|
| VOC MF11 | Manufacturing Processes 1 | |
| VOC MF38 | MasterCAM 1 | |
| VOC MF38B | Advanced MasterCAM | |
| VOC MF85 | Manual CNC Operations | |
| | | |

VOC: Nursery Management

#24209

This certificate is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry.

Program Learning Outcomes

- · Students will demonstrate professional conduct.
- · Students will be technically proficient.
- · Students will demonstrate professional conduct in the industry.
- Students will give a professional quality oral presentation.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC AGR01 | Horticultural Science | |
| VOC AGR02 | Plant Propagation/Greenhouse Management | |
| VOC AGR29 | Ornamental Plants - Herbaceous | |
| VOC AGR32 | Landscaping and Nursery Management | |
| VOC AGR50 | Soil Science and Management | |
| VOC AGR64 | Irrigation - Drip and Low Volume | |

VOC: Office Computer Applications

Office Computer Applications Certificate #24410

This certificate in Office Computer Applications is customized to meet the needs of the entry-level adult student or professional, who is seeking to acquire an array of office computer skills required in a computerized office environment.

Program Learning Outcomes

• Upon successful completion of this sequence of beginning-level computer courses, students will be prepared for entry-level office support employment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| 0 | Course Prefix | Course Name | Units |
|---|---------------|---------------------------|-------|
| | VOC CPBC1 | Basic Computing - Level 1 | |
| | VOC CPBC2 | Basic Computing - Level 2 | |
| | VOC CPBC3 | Basic Computing - Level 3 | |

| VOC CPNET | Internet Research - an Introduction |
|-----------|-------------------------------------|
| VOC CPCC | Creative Computing |

VOC: Pet Science

#24172

This certificate program is designed to give students basic skills in production and marketing of pets at the wholesale and retail level.

Required Courses

| VOC AGN01 Animal Science | |
|---|--|
| VOC AGN02 Animal Nutrition | |
| VOC AGN51 Animal Handling & Restraint | |
| VOC AGN94 Animal Breeding | |
| VOC AGL96 Animal Sanitation and Disease Control | |
| VOC AGP70 Pet Shop Management | |
| VOC AGP71 Canine Management | |
| VOC AGP72 Feline Management | |
| VOC AGP73 Tropical & Coldwater Fish Management | |
| VOC AGP74 Reptile Management | |
| VOC AGP76 Aviculture - Cage and Aviary Birds | |
| VOC BM66 Small Business Management | |

VOC: Photography - Level 1

#24245

This certificate program is designed to prepare students for employment in the field of photography and offers the core skills necessary as an entry-level Photography Assistant.

Required Courses

| (| Course Prefix | Course Name | Units |
|---|---------------|--|-------|
| | VOC GRP10 | Photoshop Imagery | |
| | VOC PHO10 | Basic Digital and Film Photography | |
| | VOC PH011 | Advanced Professional Photography | |
| | VOC PH016 | Fashion and Editorial Portrait Photography | |
| | or VOC PHC | Portraiture and Wedding Photography | |
| | VOC PHO20 | Color Photography | |

Recommended Electives

The Photography faculty recommends that you complement your studies with selected elective courses listed below. You should meet with a professor of Photography to help you determine which electives would best suit your career plans.

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC PHO01 | Laboratory Studies: Black and White Photography | |
| VOC PH015 | History of Photography | |

Program Learning Outcomes

• Students will know core skills of standard shutter speeds, creative use of shutter, standard apertures and creative use of aperture.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Retail Management – Level 1

#24418

This introductory certificate exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management, as well as the latest trends in this fast changing field. This certificate may aid the student's search for an entry-level job in retail management.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC BO25 | Business Communication | |
| VOC CSB15 | Microcomputer Applications | |
| VOC FSH62 | Retail Store Management and Merchandising | |
| or VOC BS50 | ORetail Store Management and Merchandising | |

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Program Learning Outcomes

- Students will compose an appropriate, effective letter presenting good news, bad news, sales, or persuasive content.
- Students will use informative and sales letters to convey information and influence people favorably.
- Students will develop and deliver a 3-5 minute presentation on a business related topic.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Retail Management – Level 2

#24359

This intermediate certificate builds upon the Level 1 Certificate to expose students to the various functions of managers in retail positions. Fundamentals of business organization, retail marketing and staffing provide the student a solid foundation from which to build a career in retail management.

Program Requirements

| r rogram neq | uncincinto | |
|------------------------|--|-------|
| Column 1 Column 2 | | |
| This certificate re | equires: | |
| Completion of the | e Retail | |
| Management - Le | evel 1 coursework | |
| PLUS | | |
| Completion of the | e Retail | |
| Management - Le | evel 2 coursework | |
| Required Course | 25 | |
| Course Prefix | Course Name | Units |
| Retail Manageme | ent - Level 1 Coursework | |
| VOC BO25 | Business Communication | |
| VOC CSB15 | Microcomputer Applications | |
| VOC FSH62 | Retail Store Management and | |
| | Merchandising | |
| or VOC BS5 | 0Retail Store Management and Merchandising | |
| | | |

| Course Prefix | Course Name | Units |
|-----------------|--------------------------------------|-------|
| Retail Manageme | ent - Level 2 Coursework | |
| VOC BA11 | Fundamentals of Accounting | |
| VOC BM61 | Business Organization and Management | |
| VOC BM62 | Human Resource Management | |
| VOC BS36 | Principles of Marketing | |

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Program Learning Outcomes

- Students will apply management concepts and functions.
- Students will explain theory and practical application of Equal Employment Opportunity current employment laws.
- · Students will develop a working knowledge of marketing terminology.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Retail Management – Level 3

#24383

Students completing the advanced Level 3 Certificate will increase knowledge and practical experience in business communication, leadership and financial controls. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern retail management.

Program Requirements

VOC BS36

| Column 1 | C | olumn 2 | |
|------------------------------------|--------------------------------------|-------------------------------|-------|
| This certificate r | equires: | | |
| Completion of th Management - L | e Retail evel 1 coursework | | |
| PLUS | | | |
| PLUS Completio Management - L | n of the Retail evel 2 coursework | | |
| PLUS | | | |
| Completion of th Management - L | e Retail evel 3 coursework | | |
| Required Cours | es | | |
| Course Prefix | Course Name | l | Jnits |
| Retail Managem | ent - Level 1 Coursewo | ork | |
| VOC BO25 | Business Communic | cation | |
| VOC CSB15 | Microcomputer App | lications | |
| VOC FSH62 | Retail Store Manage Merchandising | ement and | |
| or VOC BS | 50 Retail Store Manage | ment and Merchandising | |
| Course Prefix | Course Name | ι | Jnits |
| Retail Managem | ent - Level 2 Coursewo | ork | |
| 1/00 0411 | | | |
| VOC BA11 | Fundamentals of Ac | counting | |
| VOC BATT VOC BM61 | | counting on and Management | |

Principles of Marketing

Units

Course Prefix Course Name

Retail Management - Level 3 Coursework

| VOC BA07 | Principles of Accounting - Financial |
|----------|--------------------------------------|
| VOC BM60 | Human Relations in Business |
| VOC BO26 | Oral Communications for Business |

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Program Learning Outcomes

- Students will describe the basic accounting system and how it is used to serve business needs.
- Students will define organizational culture, socialization and mentoring.
- Students will apply communication skills in simulated business situations such as conferences and business groups.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Small Business Management – Level 1

#24035

Small business has been described as the engine of change within the economy. The Small Business Management – Level 1 Certificate exposes students to the fundamentals of managing and planning a small business. Upon completion students may qualify for an entry-level management position in a small business. Entrepreneurs may use this certificate as a means to plan and develop new business ventures.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---------------------------|-------|
| VOC BM20 | Principles of Business | |
| VOC BM66 | Small Business Management | |
| VOC BS36 | Principles of Marketing | |

Program Learning Outcomes

- Students will list and explain the foundations upon which business is built and the economic challenges facing the United States.
- · Students will develop a working knowledge of marketing terminology.
- · Students will describe business planning for small business.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Small Business Management – Level 2

#24034

The Small Business Management – Level 2 Certificate provides students with practical small business tools. It focuses on issues such as motivation, teamwork and leadership skills that lead to enhanced productivity through the development of people. Completion of this certificate will lead to new career opportunities for those currently employed in the small business arena.

Program Requirements

Units

| Column 1 | Column 2 | |
|--|----------|--|
| Qualification for this certificate requires: | | |
| Completion of Small Business | | |
| Management - Level 1 coursework | | |
| PLUS | | |
| Completion of Small Business | | |
| Management - Level 2 coursework | | |
| Required Courses | | |
| Course Prefix Course Name | | |

| C | ourse Prefix | Course Name | Units |
|---|-----------------|---------------------------------|-------|
| S | mall Business N | 1anagement - Level 1 Coursework | |
| | VOC BM20 | Principles of Business | |
| | VOC BM66 | Small Business Management | |
| | VOC BS36 | Principles of Marketing | |
| | | | |

Course Prefix Course Name

Small Business Management - Level 2 CourseworkVOC BM60Human Relations in Business

VOC BM61Business Organization and ManagementVOC BM62Human Resource Management

Program Learning Outcomes

 Students will define organizational culture, socialization and mentoring.

- Student will apply management concepts and functions.
- Students will explain theory and practical application of Equal Employment Opportunity current employment laws.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Small Business Management – Level 3

#24034

Upon completion of the Small Business Management – Level 3 certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an everchanging small business environment. Computer skills applicable to small business will be developed. Students will have a strategic perspective across all small business functions. Students will acquire the skills and abilities necessary to build a successful business career.

| Certificate Requirements | | | |
|--------------------------|--|--|--|
| Column 2 | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Required Courses: Course Prefix Course Name Units Small Business Management - Level 1 Coursework VOC BM20 **Principles of Business** VOC BM66 Small Business Management Principles of Marketing VOC BS36 **Course Prefix** Units Course Name Small Business Management - Level 2 Coursework VOC BM60 Human Relations in Business VOC BM61 **Business Organization and Management** VOC BM62 Human Resource Management **Course Prefix** Course Name Units Small Business Management - Level 3 Coursework VOC BA07 Principles of Accounting - Financial VOC BM10 Principles of Continuous Quality Improvement VOC CSB15 **Microcomputer Applications**

Program Learning Outcomes

- Students will describe the basic accounting system and how it is used to serve business needs.
- Students will define and outline the key principles of continuous quality management.
- Students will contrast quality management theory and previous management thought.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

VOC: Welding

#24373

This certificate is designed to prepare students for employment, and 1) leads to occupations in manufacturing and repair; and 2) helps prepare the student for positions in supervision.

Program Learning Outcomes

- Students will be employed or seeking employment in the area of study or a related area.
- · Students will be technically competent.
- Students will correctly answer two designated questions on welding process id.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|------------------------------------|-------|
| VOC WL40 | Introduction to Welding | |
| VOC WL70A | Beginning Arc Welding ¹ | |
| VOC WL70B | Intermediate Arc Welding | |

¹ Note: Any higher level welding course may be substituted for VOC WL70A.

Recommended Electives

The Welding faculty recommends that students complement their studies with selected elective courses chosen from the list below. Students should meet with a professor of Welding to help you determine which of those electives would best suit your career plans.

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| VOC WL60 | Print Reading and Computations for Welders | |
| VOC WL70C | Certification for Welders | |

VOC: Automotive Welding, Cutting, & Modification

#24406

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in automotive welding, cutting and modification. Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in automotive welding.

Program Learning Outcomes

- Students will be employed or seeking employment in the field or a related field.
- · Students will be technically competent.
- Students will perform the required practical projects used in GMAW welding and cutting.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC WL40 | Introduction to Welding | |
| VOC WL50 | Oxyacetylene Welding | |
| VOC WL51 | Basic Electric Arc Welding | |
| VOC WL53A | Welding Metallurgy | |
| VOC WL60 | Print Reading and Computations for Welders | |
| VOC WL70A | Beginning Arc Welding | |
| VOC WL70B | Intermediate Arc Welding | |
| VOC WL70C | Certification for Welders | |
| VOC WL80 | Construction Fabrication and Welding | |
| VOC WL81 | Pipe and Tube Weldinhg | |
| VOC WL91 | Automotive Weldingm, Cutting and Modification | |

VOC: Gas, Tungsten Arc, Welding

#24380

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in gas tungsten ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in aluminum, CRES, mild steel and selected exotic metals with specialty skills in gas tungsten ARC welding.

Program Learning Outcomes

 Students will be employed or seeking employment in the field or a related field.

- Students will be technically competent.
- Students will solve problems as related to preparing materials prior to welding.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|---|-------|
| VOC WL40 | Introduction to Welding | |
| VOC WL50 | Oxyacetylene Welding | |
| VOC WL51 | Basic Electric Arc Welding | |
| VOC WL53A | Welding Metallurgy | |
| VOC WL60 | Print Reading and Computations for Welders | |
| VOC WL70A | Beginning Arc Welding | |
| VOC WL70B | Intermediate Arc Welding | |
| VOC WL70C | Certification for Welders | |
| VOC WL80 | Construction Fabrication and Welding | |
| VOC WL81 | Pipe and Tube Weldinhg | |
| VOC WL90A | Gas Tungsten Arc Welding | |

VOC: Semiautomatic Arc, Welding

#24379

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in semiautomatic ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in semiautomatic ARC welding.

Program Learning Outcomes

- Students will be employed or seeking employment in the area of study or a related area.
- · Students will be technically competent.
- · Students will demonstrate safe operation of welding equipment.

Review Student Learning Outcomes (SLOs) (http://www.mtsac.edu/ instruction/outcomes/sloinfo.html)for this program.

Required Courses

| Course Prefix | Course Name | Units |
|---------------|--|-------|
| VOC WL40 | Introduction to Welding | |
| VOC WL50 | Oxyacetylene Welding | |
| VOC WL51 | Basic Electric Arc Welding | |
| VOC WL53A | Welding Metallurgy | |
| VOC WL60 | Print Reading and Computations for Welders | |
| VOC WL70A | Beginning Arc Welding | |
| VOC WL70B | Intermediate Arc Welding | |
| VOC WL70C | Certification for Welders | |
| VOC WL80 | Construction Fabrication and Welding | |
| VOC WL81 | Pipe and Tube Weldinhg | |
| VOC WL90B | Semi Automatic Arc Welding Process | |

Adult and Continuing Education Courses

| Basic Skills (BS) | |
|------------------------------------|-----|
| Citizenship (CITZ) | 393 |
| Disabled Students (DSPS) | 393 |
| English as a Second Language (ESL) | 394 |
| High School Basic Skills (BSHS) | |
| Older Adult (OAD) | 400 |
| Vocational (VOC) | 401 |
| | |

Basic Skills (BS)

BS ABE01 Career Information and Guidance 0 Units

(May be taken four times for credit) Lecture: 40

Orientation to credit and noncredit enrollment procedures, assessment and diagnostic test administration information, test score interpretation and course selection, career assessment and exploration. Course Schedule

BS ABE02 Adult Basic Education 0 Units

(May be taken three times for credit) Lecture: 1-288

Improve basic skills of adult learners. Content includes reading comprehension, language and mathematics. Course Schedule

BS ABE03 Adult Basic Education - Leadership Development 0 Units

(May be taken four times for credit) Lecture: 1-90

Leadership styles and individual leadership skills including effective communication, facilitation, problem-solving, decision-making and conflict resolution. Introduction to organizational structures, governance, models and group process. Course Schedule

BS ABE04 Guidance and Orientation to Special Programs 0 Units

(May be taken three times for credit) Lecture: 40

Orientation and guidance for noncredit programs, including the College's mission, program guidelines, regulations, and eligibility requirements; information on courses and programs, and educational planning. Course Schedule

BS ABE05 Career Development 0 Units

(May be taken two times for credit) Lecture: 90

Career preparation, assessment, and interest inventory. Exploration of career fields and employment opportunities. Resume writing, cover letter, interview skills, and employment portfolio. Internet for use in career exploration. Course Schedule

BS ABE06 Basic Skills Foundation 0 Units

(May be taken two times for credit) Lab: 1-320

Assessment and remediation of basic reading, mathematics, writing, and critical thinking. Includes study skills and test taking strategies. Course Schedule

BS ABE07 Re-Entry Work Skills Needed for Today's Workforce 0 Units

Lecture: 1-240

Development of skills necessary for employment. Topics include workplace ethics, job search techniques, resume writing and preparing for an interview. Course Schedule

BS ASVAB ASVAB Preparation (Armed Services Vocational Aptitude Battery)

0 Units (May be taken four times for credit) Lecture: 15-150

General knowledge in five of the ten areas of the Armed Services Vocational Aptitude Battery (ASVAB) Exam; general science, word knowledge, paragraph comprehension, arithmetic reasoning, and math knokwledge; test preparation skills Course Schedule

BS ASVB2 ASVAB Preparation 2 0 Units

(May be taken three times for credit) Lecture: 1-288

Higher level concepts in math reasoning, science skills, and vocabulary found on the ASVAB (Armed Services Vocqtional Aptitude Battery) Course Schedule

BS CNSL5 Career Life Planning 0 Units

(May be taken four times for credit) Lecture: 16-90

Evaluates career options using a systematic approach to self-exploration and the career and life planning process including identification of values, interests, skills and self-management style. Develop decision-making and goal-setting skills and identify barriers to success. Explores careers and job search techniques. Course Schedule

BS GEDMA GED Prep: Mathematics

0 Units (May be taken two times for credit) Lab: 1-288

Improve mathematical knowledge and skills in preparation for the Math section of the General Education Development (GED) exam. Test areas include number operations, geometry, statistics and algebra. Course Schedule

BS GEDSC GED Prep: Science

0 Units (May be taken two times for credit) (May be taken for Pass/No Pass only) Lab: 1-288

Improve scientific knowledge and skills in preparation for the Science section of the General Education Development (GED) exam. Test areas include physics, chemistry, life science, earth science and astronomy. Course Schedule

BS GEDSS GED Preparation: Social Studies 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lab: 1-288

Improve historical knowledge in preparation for the social studies section of the General Education Development (GED) exam. Test areas include United States history, world history, geography, government and economics.

Course Schedule

BS GEDWR GED Preparation: Language Arts, Writing 0 Units

(May be taken three times for credit) Lab: 1-288

Improve organizational and grammatical knowledge and skills in preparation for the Language Arts: Writing section of the General Education Development (GED) exam. Test areas include paragraph organization, sentence structure, usage, grammar mechanics and essay development.

Course Schedule

BS HCM1 Transitional Math for Health Careers 1 0 Units

(May be taken three times for credit) Lecture: 4-288

Contextualized basic math to prepare for successful transition to health career programs including numeracy, fractions, decimals, unit conversion, ratios, and proportions to apply to dimensional analysis. Course Schedule

BS HSEMA HSE Preparation: Mathematics 0 Units

(May be taken four times for credit) Lecture: 1-288

Improve mathematical knowledge and skills in preparation for the math section of High School Equivalency (HSE) exams (GED, HiSET, TASC). Test areas include number operations, algebra, statistics, and geometry. **Course Schedule**

BS HSERL HSE Preparation: Reasoning through Language Arts 0 Units

(May be taken four times for credit) Lecture: 1-288

Reading comprehension and writing skills in preparation for the Language Arts section of High School Equivalency (HSE) exams (GED HiSET, TASC). Test areas include reading comprehension, argument analysis and text comparison, grammar mechanics, and extended response development. Course Schedule

BS HSESC HSE Preparation: Science 0 Units

(May be taken three times for credit) Lecture: 1-288

Improve scientific knowledge in preparation for the science section of High School Equivalency (HSE) exams (GED, HiSET, TASC). Test areas include life science, physical science, earth and space science. Course Schedule

BS HSESS HSE Preparation: Social Studies 0 Units

(May be taken three times for credit) Lecture: 1-288

Social studies knowledge in preparation for sections of the High School Equivalency (HSE) exams (GED, HiSET, TASC). Exam areas include United States (U.S.) history, world history, geography, government, and economics. **Course Schedule**

BS LANG1 Language Skills Laboratory 0 Units Lab: 1-320

Designed for ESL students, either enrolled in an ESL class or awaiting admission, to enhance pronunciation, listening, writing and comprehension skills. Also open to AmLa students, foreign language, American Sign Language students to enhance skills in the primary target language.

Course Schedule

BS LRN01 Short-Term Review

0 Units (May be taken three times for credit) Lecture: 1-320

Intensive review in the following subjects: reading, comprehension, vocabulary, grammar, basic math, pre-algebra and algebra. Computer programs, instructional materials and individual assistance are provided. Course Schedule

BS LRN03 Math Skills Review 0 Units

Lab: 1-288

Increase basic math knowledge and reduce math anxiety. Topics include fractions, decimals, ratios, proportions, percentages and the application of these skills in life and work situations. Course Schedule

BS LRN06 Personal Computer Applications 0 Units

(May be taken three times for credit) Lecture: 1-288

Improve keyboarding skills using software programs. Word processing, spreadsheet, presentation software, email and internet for personal management and for use in school and at work. **Course Schedule**

BS LRN50 Learning Support Lab 0 Units

Lab: 1-320

Learning and workplace skills are enhanced by computer use and instruction for students enrolled in or seeking enrollment in a college instructional program. Course Schedule

BS LRN76 Improving Reading Comprehension

0 Units Lab: 1-320

Prepares students for reading informational materials. Topics include spelling, reading comprehension, dictionary usage and how to read a textbook.

Course Schedule

BS LRN81 Improving Writing Skills

0 Units (May be taken two times for credit) Lecture: 54

Prewriting, writing, editing and revising skills. Content and structure of sentences, paragraphs and essays; emphasize development in writing through the integration of grammar and critical thinking. Course Schedule

BS MTH01 Developmental Mathematics Concepts and Applications 0 Units

(May be taken three times for credit) Lab: 1-320

Hands-on activities and practical applications of algebraic principles: elementary geometry, signed numbers, ratio and proportion, factoring, pre-algebra, linear and quadratic equations, complex numbers, graphing, functions, sequences, linear and non-linear inequalities and systems, progressions, and sigma notation. Course Schedule

BS STD80 Foundations for Academic Success 0 Units Lab: 54

College success course emphasizing academic achievement that promotes learning through self-awareness, time management, listening, note-taking, oral and written communication, test-taking, memorization and the use of campus resources using a brain-based perspective. Course Schedule

BS TR01 All Subject Tutoring 0 Units Lab: 1-320

Assistance in writing, reading, mathematics and/or study skills through tutoring and computer-based learning. Tutorial assistance in other subject areas may be available. Course Schedule

BS TR02 Tutoring Techniques 0 Units

Lecture: 9

Explores learning theories and tutoring techniques for tutoring individuals and small groups. Emphasis is placed on encouraging independent learning. Course Schedule

BS WRT2 Basic Writing Skills Development

0 Units Lab: 1-320

Enhance basic skills in reading and writing, via the use of computerassisted learning, email and on-line tools. Course Schedule

Citizenship (CITZ)

CITZ NAT Citzenship for Naturalization 0 Units Lecture: 1-112

Preparation for the interview for United States Citizenship. Recommended for non-native English speaking students with intermediate or advanced English skills. Course Schedule

Disabled Students (DSPS)

DSPS ELL01 Lifelong Learning for the Special Needs Population 0 Units

(May be taken three times for credit) Lab: 70-315

Educational activities for special needs students emphasizing physical, cognitive, social, and emotional skill development. Course Schedule

DSPS ESL25 Language Development for Deaf Students in ASL and ESL 0 Units

(May be taken two times for credit) Lab: 108

Language development for Deaf or hard-of-hearing students. Includes written English, ESL and ASL. Course Schedule

DSPS ESL26 Language Enhancement for Deaf Students in ASL and ESL 0 Units

(May be taken two times for credit) Lab: 108

Language enhancement for Deaf or hard-of-hearing students. Intermediate skills in written ESL and ASL. Course Schedule

DSPS IAEP Interacting with Emergency Personnel and Authorities 0 Units

(May be taken three times for credit) Lecture: 64

Prepares students with disabilities to interact with emergency personnel including law enforcement. Overview of the criminal justice system and reporting victimization. Course Schedule

DSPS LRND1 Clinical Speech Instruction 0 Units

Lab: 1-48

Designed for Mt. SAC students with acquired brain injury. Specialized instruction to improve speech (articulator movement, motor planning) language (expressive, receptive) and cognition (attention, memory, reasoning) needed to achieve academic and vocational goals. Note: Students must make an appointment with the instructor, have acquired the injury after the age of 12, and have completed any services through the public school system in order to be eligible to register for this class. Course Schedule

DSPS LRND2 High Tech Center: Assistive Technology and Academic Strategies

0 Units (May be taken three times for credit)

Lab: 1

Technology and academic strategies to assist students in accessing information and completing credit class assignments. Students should be registered with DSPS and enrolled in at least 3 academic units. Course Schedule

DSPS LRND3 Acquired Brain Injury Intervention 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lab: 64

Designed for students who have been accepted into the Acquired Brain Injury Program at Mt. SAC. Specialized instruction and the use of computer software to improve cognitive skills (attention, memory, reasoning, etc) needed for academic and vocational goals.Note: Students must see a brain injury specialist in Disabled Student Programs & Services (DSP&S), have acquired their injury after the age of 12, and have finished with any services through the public school system in order to be eligible to register in this class. Course Schedule

English as a Second Language (ESL)

ESL DEAF1 ESL Deaf - Level 1 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lecture: 123

Foundations of English as a Second Language (ESL) and American Sign Language (ASL) for communication with the Deaf or Hard of Hearing. Course Schedule

ESL DEAF2 ESL Deaf - Level 2 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lecture: 123

Developing English as a Second Language (ESL) and American Sign Language (ASL) for communication, promotion of study skills, and career advancement. Course Schedule

ESL LANG2 ESL Computer and Language Skills Lab 0 Units

Lab: 25

English language through reading, writing, listening, pronunciation, grammar review and practice tests using various software programs. Course Schedule

ESL LANG3 English for Special Uses 0 Units Lecture: 25

Advanced ESL speaking, writing, vocabulary and study skills related to careers and technical education. Critical thinking, cultural awareness, teamwork, and autonomous learning strategies. Course Schedule

ESL LVL1 ESL - Level 1 0 Units (May be taken three times for credit) Lecture: 16-384

Beginning-low English vocabulary and basic grammar. Includes listening, speaking, reading and writing skills practice on personal topics of interest and life experiences. Course Schedule

ESL LVL2 ESL - Level 2

0 Units

(May be taken three times for credit) Lecture: 16-384

Beginning-high English vocabulary and grammar. Includes listening, speaking, reading and writing practice. Course Schedule

ESL LVL3 ESL - Level 3 0 Units

(May be taken three times for credit) Lecture: 16-384

Intermediate-low English communication and grammar. Includes listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for academic and vocational success as well as civic participation. Course Schedule ESL LVL4 ESL - Level 4 0 Units (May be taken three times for credit) Lecture: 16-384

Intermediate-high English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams, in preparation for academic and vocational success as well as civic participation. Course Schedule

ESL LVL5 ESL - Level 5 0 Units

(May be taken three times for credit) Lecture: 16-384

Advanced-low English communication and study skills for transition into academic vocational, or general education classes. Activities include teamwork, projects, presentations and exams to ensure academic and career success, civic participation, and strategies for lifelong learning. Course Schedule

ESL LVL6 ESL - Level 6 0 Units

(May be taken three times for credit) Lecture: 16-384

Advanced-high English communication and study skills for transition into academic, vocational, or general education classes. Activities include teamwork, projects, presentations and exams to ensure academic and career success, civic participation and strategies for lifelong learning. Course Schedule

ESL PLVL1 ESL - Pre-Level 1 0 Units

(May be taken four times for credit) Lecture: 16-384

Literacy-level English students build a base of vocabulary and grammar through the practice of listening, speaking, reading and writing skills. Course Schedule

ESL SPKA ESL - Speaking A 0 Units Lecture: 1-112

Beginning level English listening and speaking skills. Focus is on vocabulary development, simple conversations, short presentations and pronunciation. Course Schedule

ESL SPKB ESL - Speaking B 0 Units

Lecture: 1-112

Intermediate level English oral proficiency in areas of pronunciation, listening, comprehension and speaking. Focus on speaking with clarity and fluency, presenting ideas and opinions, and making cultural comparisons.

Course Schedule

ESL SPKC ESL - Speaking C 0 Units Lecture: 1-112

Advanced level English listening and speaking strategies for academic preparation, workplace advancement and civic participation. Focus is on fluency, grammatical accuracy and appropriate social register using authentic material. Course Schedule

ESL SPKP1 ESL-Speaking for Beginners P1 0 Units

Lecture: 1-112

Literacy level English listening comprehension and speaking skills. Activities include repetition exercises, listening and responding to simple conversations, retelling stories, and pronunciation practice. Course Schedule

ESL TOEFL TOEFL Preparation (Teaching of English to Foreign Language Learners)

0 Units Lecture: 1-112

Advanced reading, listening, speaking and writing skills in preparation for standardized tests such as TOEFL. Course Schedule

ESL VHLTH ESL for Health Professionals

0 Units Lecture: 25

Advanced speaking, writing, vocabulary and study skills related to careers in healthcare. Incorporates critical thinking, cultural awareness, teamwork and autonomous learning strategies. Course Schedule

ESL WRTA ESL - Writing A 0 Units Lecture: 1-112

Beginning-level reading and writing skills using familiar topics and American customs. Focus is on combining sentences and learning vocabulary.

Course Schedule

ESL WRTB ESL - Writing B 0 Units

Lecture: 1-112

Intermediate-level reading and writing using a variety of reading material and writing topics. Includes abridged book reports, process writing and peer editing, primarily at the paragraph level. Course Schedule

ESL WRTC ESL - Writing C 0 Units Lecture: 1-112

Advanced-level reading and writing proficiency using a range of genres. Process writing to facilitate academic preparation and workplace advancement. Focus on interpretation of authentic material and development of editing strategies. Course Schedule

ESL WRTP1 ESL-Writing for Beginners P1 0 Units

Lecture: 1-112

Reading and writing skills that set the foundation for English literacy. Material is based on personal life, familiar topics and American customs. Focus is on vocabulary, introduction to reading passages, and accuracy in sentence-level writing. Course Schedule

High School Basic Skills (BSHS)

BSHS ALG1 High School Algebra 1

0 Units

(May be taken three times for credit) Lecture: 15-150

Key components of first year high school algebra. Use of symbolic reasoning and calculations with symbols as applied to solving, graphing equations, functions and inequalities. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS ALG2 High School Algebra 2 0 Units

(May be taken three times for credit) Lecture: 15-150

Components of second year algebra. Expands on basic algebra and geometry concepts, including solutions of quadratic equations and functions, equations and inequalities, fractional exponents and exponential functions, polynomials, real numbers, rational and irrational expressions, logarithmic functions, computations, permutations and probabilities, statistics, series and sequences, the complex number system, and trigonometric functions. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS ART1 High School Art and Creative Expression 0 Units

(May be taken two times for credit) Lecture: 15-150

Artistic perception, creative expression, the historical and cultural context of art, aesthetic valuing, and art forms, relationships, and applications, original productions through design and drawing using a variety of media, careers in art and design. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15hour modules. Course Schedule

BSHS ART2 HIgh School Art 2 0 Units (May be taken two times for credit)

Lecture: 15-150

Artistic perception, creative expression, and aesthetic valuing. Historical and cultural context of the visual arts. Original productions in more complex art designs and drawings using a variety of media. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS BIO High School Biology

0 Units (May be taken two times for credit) Lecture: 15-150

Basic life science. Includes diversity of life from a microscopic to a macroscopic scale, relationship between structure and function, chemistry in life processes, cells as the basis of all life, interdependence in nature, information and heredity, evolutionary theories and homeostasis. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS CHEM High School Chemistry 0 Units

(May be taken two times for credit) Lecture: 15-150

Nature of matter and its transformations, chemical bonds, and stoichiometry, properties of gases, acids and bases, and organic and inorganic compounds. Chemical systems such as solutions, reactions, and nuclear processes. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS CIV High Schools Civics 0 Units

(May be taken two times for credit) Lecture: 15-150

Growth of democracy, federalism, separation of powers, checks and balances, civil liberties, civil rights, civic participation and comparative government. Assessment of global perspectives, constitutional interpretations, political processes, public policy, free enterprise and cultural pluralism. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS CPTC High School Computer Technology 0 Units

(May be taken two times for credit) Lecture: 15-150

Fundamental computer concepts, keyboarding skills, Internet applications, word processing, multi-media presentations, spreadsheets and electronic publishing. Application of technology in the educational and workplace settings. Includes file management and appropriate technology used in a network environment as well as copyright law and safety. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS EASC High School Earth Science 0 Units

(May be taken two times for credit) Lecture: 15-150

Fundamentals of Earth Science, Earth and the universe, Earth's processes, energy and biochemical cycles, atmosphere and geology. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS ECON High School Economics 0 Units

(May be taken three times for credit) Lecture: 15-150

General economic principles and practices including: scarcity and choice, opportunity and trade-offs, economic systems, institutions and incentives, markets and prices, supply and demand, competition, income distribution, monetary policy, international economics, and government roles. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS EELA HS CAHSEE Preparation - English Language Arts 0 Units

(May be taken four times for credit) Lecture: 15-150

Examination preparation for the reading and writing portions of the California High School Exit Exam. Supports progress toward a high school diploma or equivalent. Course Schedule

BSHS EEMA HS CAHSEE Preparation - Mathematics 0 Units

(May be taken four times for credit) Lecture: 15-150

Preparation for the mathematics portion of the California High School Exit Exam. Supports progress toward a high school diploma or equivalent. Course Schedule

BSHS ENG1 High School English 1 0 Units (May be taken three times for credit)

Lecture: 15-150

Foundations and analysis of literature using a variety of genres and themes. Writing, editing, and critical thinking skills including vocabulary, concept development, grammar, and writing mechanics. Contributes to the progress of a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS ENG2 High School English 2 0 Units

(May be taken three times for credit) Lecture: 15-150

Advanced foundations of literature using a variety of genres and themes. Improves skills in reading comprehension, literary analysis, mechanics of writing, and oral presentations. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS ENG3 High School English 3

0 Units (May be taken three times for credit) Lecture: 15-150

American literature using an American historical approach. Includes social, political, and intellectual trends connected with the following time periods: Pre-Colonial Era, the American Revolution,the New England Renaissance, Slavery and the Civil War, the Frontier Era, the Harlem Renaissance, and the Modern Era. Development of writing and critical thinking skills. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS ENG4 High School English 4 0 Units

(May be taken three times for credit) Lecture: 15-150

British literature using the historical approach. Includes social, political, and intellectual trends connected with the following time periods: Anglo-Saxon, Medieval, English Renaissance, Renaissance drama, the early 17th century, the Restoration and the 18th century, the Romantic Era, the Victorian Age, and contemporary British poetry and prose. Development of writing, critical thinking, and the use of literary tools. Supports progress toward to a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS GEOG High School Geography 0 Units

(May be taken three times for credit) Lecture: 15-150

Patterns and processes that have shaped human understanding, use, and alteration of Earth s surface. Spatial concepts and landscape analysis to examine human social organization and its environmental consequences, and the inter-relationship of natural processes and systems. Methods and tools geographers use. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15hour modules.

Course Schedule

BSHS GEOM High School Geometry 0 Units

(May be taken three times for credit) Lecture: 15-150

Geometric applications and connections. Definitions, constructions, theorems, proofs, area, volume, and geometric relationships. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS HLTH High School Health 0 Units

(May be taken two times for credit) Lecture: 15-150

Health issues, healthy choices and behavior, social and mental health, how health issues impact the community and environment. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS INMA1 HS Integrated Math 1 0 Units

(May be taken four times for credit) Lecture: 15-150

Algebraic, geometric, and statistical applications and connections. Equations, inequalities, and functions. Definitions, constructions, theorems, proofs, similarity, transforming and congruence of geometric figures. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS INMA2 Integrated Math 2 0 Units

(May be taken four times for credit) Lecture: 15-150

Algebraic, geometric, and statistical applications and connections. Course Schedule

BSHS INMA3 HS Integrated Math 3 0 Units

(May be taken three times for credit) Lecture: 15-150

Algebraic, geometric, and statistical applications and connections. Equation, inequalities, functions, quadratics, and polynomials. Rational and radical expressions, logarithms, trigonometry, sequences and series, circles, and probability. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS KEY High School Typing Keyboarding 0 Units

(May be taken two times for credit) Lecture: 15-150

Keyboarding skills, speed and accuracy, basic documents. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS MUSC High School Music Appreciation 0 Units

(May be taken two times for credit) Lecture: 15-150

Analysis of music through history, instruments and genre. Includes vocabulary, compositions, musical elements, and musical works. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS PHSC High School Physical Science 0 Units

(May be taken two times for credit) Lecture: 15-150

Introductory overview of chemistry and physical science. Basics of the periodic table, matter, and atoms. Newtonian physics including motion, momentum and forces. Machines, energy, waves, light, electricity and magnetism. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits canbe earned in 15-hour modules.

Course Schedule

BSHS PLNG High School Planning and Guidance 0 Units

(May be taken two times for credit) Lecture: 15-150

Guidance and planning: career self-assessment, college and career exploration, online resources, and career development. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS PREA High School Pre-Algebra 0 Units

(May be taken three times for credit) Lecture: 15-150

Arithmetic operations through pre-algebra. Supports progress in completing a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS PSY High School Psychology 0 Units

(May be taken three times for credit) Lecture: 15-150

Methods, facts, and theories of the behavior and processes of human beings. Theories and characteristics of the history of psychology, research and statistics, child and adult development, sensations, perceptions, cognition, stress, learning, memory, motivation, behavior, personality, abnormal behavior, individuality versus group identity and behavior, and therapy. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS READ High School Reading 0 Units

(May be taken four times for credit) Lecture: 15-150

Basic reading including comprehension and vocabulary strategies using a variety of narrative and expository texts. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS SOC High School Sociology

0 Units

(May be taken three times for credit) Lecture: 15-150

Theories, characteristics, and implications of culture, socialization, society, groups, deviations and control, social stratification, race, gender, age, family, education, politics, religion, sports, and change. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS SPN1 High School Spanish 1 0 Units

(May be taken three times for credit) Lecture: 15-150

First year course in Spanish language. Communication about self and immediate environment using simple sentences and phrases and verb forms. Includes writing and speaking. Cultural connections to geography and customs of Spanish-speaking countries. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS SPN2 High School Spanish 2 0 Units

(May be taken three times for credit) Lecture: 15-150

Second year Spanish course. Culture, listening, speaking, reading, and writing. Emphasis on skills needed to communicate in a variety of modes with increased complexity and proficiency. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS SPNS1 HS Spanish for Native Speakers 1 0 Units

(May be taken three times for credit) Lecture: 15-150

First-year Spanish language for native speakers: reading, listening, writing and speaking skills, grammar, literature, and history of the Hispanic culture. Course will be taught primarily in Spanish. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS SPNS2 High School Spanish for Native Speakers 2 0 Units

(May be taken three times for credit) Lecture: 15-150

Second year Spanish language for native speakers. Improvement in reading, listening, writing, and speaking skills of native Spanish speakers. Literature and history of the Hispanic culture. Course will be taught primarily in Spanish. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS SSK High School Study Skills 0 Units

(May be taken three times for credit) Lecture: 15-150

Study and employment skills for college and career readiness. Approaches to organization skills, learning tools, and career path development. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS USH High School U.S. History 0 Units

(May be taken three times for credit) Lecture: 15-150

History, politics, economics, religion, and culture in United States history from its beginning to contemporary times. Significant events and people that comprise American history. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15hour modules.

Course Schedule

BSHS WHS High School World History 0 Units

(May be taken three times for credit) Lecture: 15-150

World history from prehistory to the modern era. Major turning points that shaped the modern world, focusing on the late 18th century through the present, including causes and courses of the two world wars. Rise of democratic ideas and the historical roots of current world issues pertaining to international relations, historical, geographic, political, economic, and cultural contexts. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules.

Course Schedule

BSHS WREX High School Expository Writing 0 Units

(May be taken two times for credit) Lecture: 15-150

Developing essay writing including introductory paragraphs, body paragraphs and concluding paragraphs in expository, descriptive, narrative and argumentative essays. Supports progress toward a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules. Course Schedule

BSHS WRIT1 Literature/Writing 1 0 Units

(May be taken four times for credit) Lecture: 15-150

Reading comprehension and analysis skills across genres including fiction, nonfiction, various genres of literature (novels, short stories, plays, poetry) and informational texts; writing skills including paragraph writing, thesis development, and editing. Supports progress towards a high school diploma or equivalent, from 1-10 high school credits can be earned in 15-hour modules per credit. Course Schedule

BSHS WRIT2 Literature and Writing Fundamentals 2 0 Units

(May be taken three times for credit) Lecture: 15-150

Literary analysis skills across genres including fiction, nonfiction, various genres of literature (novels, short stories, plays, poetry), and informational texts; essay writing skills for academic essays, research papers, and workplace documents. Supports progress towards a high school diploma or equivalent. From 1-10 high school credits can be earned in 15-hour modules per credit. Course Schedule

Older Adult (OAD)

OAD BHTH1 Brain Health 1 0 Units Lecture: 1-96

Critical thinking and cognitive skills through understanding key structures and functions of the brain. Particular focus on auditory processing. Course Schedule

OAD BHTH2 Brain Health 2 0 Units

Lecture: 96

Age-related cognitive decline and preventative measures to strengthen and improve brain function. Particular focus on visual processing. Course Schedule

OAD ELL04 Lifelong Learning for Older Adults 0 Units

Lab: 12-144

Improve or maintain mental fitness of older adults through educational activities promoting critical thinking and cognitive skills. Course Schedule

OAD ELL05 Lifelong Leraning through Current World Events 0 Units

(May be taken three times for credit) Lab: 54

Cognitive fitness for older adults with emphasis on local, national and global issues. Course Schedule

OAD FKA04 Quilting

0 Units Lab: 12-54

Hand or machine patchwork, applique and various ways to form quilt patterns to create a quilt for home or retail for the older adult population. Course Schedule

OAD FNA01 China Painting

0 Units Lab: 12-54

China painting, including basic understanding of the color wheel, design, etching on china, gold work, luster, raised paste for gold, matte colors and use of the kiln for the older adult population. Course Schedule

OAD FNA03 Oil Painting

0 Units (May be taken three times for credit) Lab: 12-54

Principles of drawing, design, color and composition for oil painting emphasizing creative skill development for the older adult population. Course Schedule

OAD FNA04 Watercolor Painting

0 Units (May be taken three times for credit)

Lab: 12-54

Principles of watercolor painting for the older adult population. Emphasis will be on creative expression to develop primary skills for watercolor as they relate to composition and technique. Course Schedule

OAD FNA05 Creative Writing (Writing Your Autobiography) 0 Units

Lab: 12-54

For all writing levels. Creation of articles, memoirs and life-based essays for the older adult population. Course Schedule

OAD FNA32 Drawing-Beginning Through Advanced 0 Units

(May be taken three times for credit) Lab: 12-54

Perceptual and technical skills of drawing. Includes dry and fluid media for the older adult population. Focus on single objects, still life and landscape. Course Schedule

OAD HTH02 Healthy Cooking/Older Adults

0 Units

Lab: 12-54

Healthy meals for older adults, including microwave use, cuisine for singles or doubles, and meals to cook once and eat twice. Includes dietary guidelines and food safety. Course Schedule

OAD MOX01 Healthy Aging

0 Units (May be taken three times for credit)

Lab: 80

Healthy aging, including diet, nutrition, disease prevention, and application of physical fitness principles to maintain health while aging. Course Schedule

OAD MOX02 Healthy Aging - Principles of Slow Movement 0 Units

(May be taken three times for credit) Lab: 80

Heathy aging, including diet, nutrition, disease prevention, and application of Tai Chi principles to maintain health while aging for the older adult population. Course Schedule

course schedule

OAD MOX04 Healthy Aging - Principles of Posture and Flexibility 0 Units

(May be taken three times for credit) Lab: 80

Healthy aging, including diet, nutrition, disease prevention, and application of Yoga principles to maintaining health while aging for the older adult population. Course Schedule

OAD MOX06 Healthy Aging - Principles of Aquatic Resistance 0 Units

(May be taken three times for credit) Lab: 80

Healthy aging, including diet, nutrition, disease prevention, and application of aquatic resistance principles to maintaining health while aging for the older adult population. Course Schedule

OAD MOX09 Mobility through Exercise - Strength Training 0 Units

Lecture: 1-48

Resistance training for isolation of targeted muscle groups to increase strength, range of motion, flexibility, and increase bone density using toner bands. Designed to challenge all major muscles. Students are encouraged to participate at their own level. In addition, low stretching and breathing techniques will be taught. Course Schedule

OAD MOX11 Healthy Aging: Fall Prevention, Balance and Mobility 0 Units

(May be taken three times for credit) Lab: 80

Risks and fears associated with falling for older adults. Includes setting realistic goals, minimizing environmental risks, and balance exercises. Course Schedule

OAD MUSCE Creative Expression through Music

0 Units Lecture: 1-48

Music appreciation including discussion, singing, listening and interaction for the older adult population. Concentration will be on various musical styles and historical periods in which music plays specific roles. Course Schedule

Vocational (VOC)

VOC ADJ01 The Administrative Justice System

0 Units (May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction. Course Schedule

VOC ADJ02 Principles and Procedures of the Justice System 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Due process in criminal proceedings from pre-arrest through trial and appeal using statutory law and legal precedent. Course Schedule

VOC AGG01 Food Production, Land use & Politics-a Global Perspective 0 Units

(May be taken two times for credit) Lecture: 54

Surveys the world s food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture. Course Schedule

VOC AGL12 Exotic Animal Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals. Course Schedule

VOC AGL14 Swine Production 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, farrowing, butchering, and marketing. Practical skills are taught using the college farm. Course Schedule

VOC AGL16 Horse Production and Management 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Selection, utilization, and management of the light horse. Emphasis is on evaluation, health care, and handling skills. Course Schedule

VOC AGL17 Sheep Production

0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Survey of the sheep and goat industries; management of commercial, purebred and small farm flocks; selection, feeding, breeding, and basic care of small ruminants plus marketing of sheep, goats and their products. Laboratory and field trips required. Course Schedule

VOC AGL18 Horse Ranch Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 54

Skills and procedures used in the management of an equine business. Includes business plans and record keeping, staff and financial management, horse care and training, and farm design for a variety of horse operations. Course Schedule

VOC AGL19 Horse Hoof Care

0 Units (May be taken two times for credit) Lecture: 18 Lab: 54

Proper horse hoof care; shoeing, trimming and disease recognition and control. Course Schedule

VOC AGL20 Horse Behavior and Training 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lecture: 18 Lab: 54

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads and trailer loading. Course Schedule

VOC AGL30 Beef Production

0 Units (May be taken two times for credit) Lecture: 36 Lab: 54

Purebred and commercial beef cattle production; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing, and recordkeeping to ensure scientifically based management decisions and consumer product acceptance as applied to beef cattle. Laboratory required. Field trips required.

Course Schedule

VOC AGL34 Livestock Judging and Selection 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 18 Lab: 54

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation. Course Schedule

VOC AGL96 Animal Sanitation and Disease Control 0 Units

(May be taken two times for credit) Lecture: 54

Prevention and control of infectious diseases affecting domestic animals including basic disease concepts, transmission of infectious diseases, principles of sanitation, and fundamentals of immunology. Course Schedule

VOC AGL97 Artificial Insemination of Livestock 0 Units (May be taken two times for credit)

Lecture: 18 Lab: 54

Theory and application of artificial insemination of domestic animals, including semen evaluation and processing, heat synchronization, and pregnancy diagnosis. Course Schedule

VOC AGN01 Animal Science 0 Units

(May be taken three times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Fundamental problems and essential concepts of animal production. Types of domestic animals and their utilization by humans. Course Schedule

VOC AGN02 Animal Nutrition 0 Units

(May be taken two times for credit) Lecture: 54

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

Course Schedule

VOC AGN51 Animal Handling & Restraint 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Methods of proper handling large and small animals, including chemical and physical techniques of restraint. Field trips Required. Course Schedule

VOC AGN94 Animal Breeding

0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included. Course Schedule

VOC AGP70 Pet Shop Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Pet shop operations and the economic aspects of the pet industry. Organization and operation of pet shops, animal care practices, and sound business management practices. Course Schedule

VOC AGP71 Canine Management 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Selection, feeding, housing, breeding and management of dogs, including commercial aspects of the dog as a domestic pet. Laboratory work will include practical experience in the handling, training and grooming of dogs. May include field trips. Course Schedule

VOC AGP72 Feline Management 0 Units

(May be taken two times for credit) Lecture: 54

Care and management of cats, including breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding and housing. Course Schedule

VOC AGP73 Tropical & Coldwater Fish Management 0 Units

(May be taken two times for credit) Lecture: 36

Care and keeping of marine and freshwater aquarium fishes, plants, and invertebrates. Guidance on setting up aquariums, choosing compatible species, feeding, health care, breeding and raising fish. Course Schedule

VOC AGP74 Reptile Management

0 Units (May be taken two times for credit) Lecture: 36

Care and maintenance of reptiles and amphibians, including snakes, lizards, turtles, tortoises, newts, salamanders and frogs. Identification and characteristics of reptiles commonly kept as pets. Housing, feeding, health maintenance, breeding and raising of reptiles. Course Schedule

VOC AGP76 Aviculture - Cage and Aviary Birds 0 Units

(May be taken two times for credit) Lecture: 54

Cage and aviary birds marketed in the wholesale and retail pet trade. Identification, nutrition, breeding, disease prevention and control, aviary construction. Psittacines, soft bills, finches, game birds, poultry and ornamental waterfowl. Course Schedule

VOC AGR-G Home Gardening 0 Units

(May be taken three times for credit) Lecture: 54

Organic gardening, plants, fruit orchards, and traditional gardening for the older adult population, including design, propagation methods, pruning, fertilizing, and pest control. Course Schedule

VOC AGR01 Horticultural Science 0 Units

(May be taken two times for credit) Lecture: 54

Horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development Offcampus meetings required. Course Schedule

VOC AGR02 Plant Propagation/Greenhouse Management 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 38

Plant Propagation and production practices with emphasis on florists' plant, woody ornamentals, and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing, and division. Stresses greenhouses and other environmental structures for plant propagation and production. Course Schedule

VOC AGR04 Park Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling. Course Schedule

VOC AGR05 Park Facilities 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses. Course Schedule

VOC AGR13 Landscape Design 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Landscape design for residential and small commercial sites including the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Field trips and off-campus assignments are required.

Course Schedule

VOC AGR15 Interior Landscaping 0 Units

(May be taken four times for credit) Lecture: 54

Design, installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use. Field trip required. Course Schedule

VOC AGR24 Integrated Pes Management 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Common agricultural pests in Southern California and physical, biological, and chemical pest control principles and practices, including integrated pest management (IPM). Streses use, safety, equipment, laws, and regulations of pesticides. Field trips are required. Course Schedule

VOC AGR25 Floral Design 1

0 Units (May be taken two times for credit) Lecture: 24 Lab: 44

Principles of floral design: form, style, and composition. Includes designing of floral arrangements, wreaths, sprays, baskets, bouquets, wedding flowers, and corsages. Course Schedule

VOC AGR26 Floral Design 2 0 Units

(May be taken two times for credit) Lecture: 24 Lab: 44

Contemporary floral design theory emphasizing creativity, self-expression, and professional design situations. Course Schedule

VOC AGR27 Floral Design 3 0 Units

(May be taken two times for credit) Lecture: 24 Lab: 44

Advanced principles of floral design and florist operations management. Includes designs and operations related to holidays, parties, weddings, and sympathy. Course Schedule

VOC AGR29 Ornamental Plants - Herbaceous 0 Units

(May be taken three times for credit) Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, groundcovers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists. Course Schedule

VOC AGR30 Ornamental Plants - Trees and Woody Shrubs

0 Units (May be taken two times for credit) Lecture: 36 Lab: 54

Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape contractors Association (CLCA) certification test plant lists. Off campus meetings required. Course Schedule

VOC AGR32 Landscaping and Nursery Management 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas; greenhouse management; soil mixes and proper use of fertilizers, insecticides, fungicides, herbicides and growth regulators; irrigation; mechanization; financing; personnel management; retail displays, advertising and customer relationships; federal, state and local laws and regulations. Field trips are required. Course Schedule

VOC AGR39 Turf Grass Production and Management 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Introduction to cultivation, maintenance, and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries, and commercial and residential lawns. Identification, installation, cultural requirements, and maintenance practices are emphasized. Field trips required.

Course Schedule

VOC AGR40 Sports Turf Management 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Prepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges and other sports fields in both professional and amateur sports. Field trips are included. Course Schedule

VOC AGR50 Soil Science and Management

0 Units (May be taken two times for credit)

Lecture: 36 Lab: 54

Principles of soil management, including management of air, water, nutrients, organic matter. Study of soil including physical, chemical, and biological properties, classification, derivation, use, function, and management including erosion, moisture, retention, structure, cultivation, organic matter, and microbiology as they pertain to optimized plant, growth. Laboratory topics include soil type, classification, soil reaction, soil fertility, and physical properties of soil. Laboratory required. Field trips are required. Course Schedule

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VOC AGR51 Tractor and Landscape Equipment Operations 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Selection, operation, repair and maintenance of power equipment used in the agriculture and landscape industry. Include two- and four-wheel drive tractors, skip loader, skid steer loader, backhoes, lawnmowers, edgers, weed eaters, blower vacuums, rototillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes use of this equipment. Course Schedule

VOC AGR52 Hydraulics

0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Operation, maintenance, and repair of hydraulic systems used on agriculture and industrial equipment. Course Schedule

VOC AGR53 Small Engine Repair 1

0 Units (May be taken two times for credit) Lecture: 36 Lab: 54

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repair of lawnmowers, chainsaws, 2cycle engines, 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. Course Schedule

VOC AGR55 Diesel Engine Repair

0 Units (May be taken two times for credit) Lecture: 36 Lab: 54

Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment. Includes hands-on experience maintaining, servicing, and repairing diesel engines. Course Schedule

VOC AGR56 Engine Diagnostics 0 Units (May be taken two times for credit)

Lecture: 36 Lab: 54

Analysis and evaluation of tractor engine power failures with hands-on experience in the proper diagnostic procedures of power equipment. Includes service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries, and test equipment. Field trips are required. Course Schedule

VOC AGR57 Power Train Repair 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Service, maintenance and repair of power trains. Students gain experience with clutches, transmissions, differentials, power takeoff units, and final drive used to transmit power on tractors and other outdoor power equipment. Course Schedule

VOC AGR62 Irrigation Principles and Design 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Principles of irrigation, design techniques, sprinkler system components, and hydraulic principles used in nursery management, interior design, residential, and commercial landscapes. Special emphasis is given to water conservation. Field trips are required. Course Schedule

VOC AGR63 Irrigation Systems Management 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Systematic approach to water conservation in landscapes. Soil-plantwater relationships, evapotranspiration, irrigation schedules, salinity and drainage, and irrigation efficiency. Water measurement, soil moisture measurement, irrigation systems, and practical constraints affecting scheduling. California water supply issues. Irrigation efficiency testing will be incorporated to demonstrate proper methods of water audits and system evaluation. Field trips are required. Course Schedule

VOC AGR64 Irrigation - Drip and Low Volume 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Conservation of water in landscapes by utilization of drip and lowflow irrigation practices. Design, installation techniques, operation, and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and lowflow devices, and uniformity of water distribution. Includes hands-on experience in design and installation techniques. Field trips are required. Course Schedule

VOC AGR71 Construction Fundamentals 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Construction techniques and tools used in landscaping with construction projects that include surveying techniques, utilities (gas, water, and electricity), woodworking, and masonry. Course Schedule

VOC AGR72 Landscape Hardscape Applications 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Landscape construction pertaining to hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains, and pools. Students will gain hands-on experience in the laboratory activities. Course Schedule

VOC AGR73 Landscaping Laws, Contracting, and Estimating 0 Units

(May be taken two times for credit) Lecture: 54-54

Landscape laws, contracting and estimating as they pertain to landscape construction. Information covered will be helpful for the Landscape Contractor's (C-27 classification) licensing exam administered by the State of California. Off campus assignments required. Course Schedule

VOC AGR75 Urban Arboriculture 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification exams. Course Schedule

VOC ANA50 Basic Anatomy/Physiology 0 Units

(May be taken four times for credit) Lecture: 54

Introduction to human anatomy and physiology by systems, with brief descriptions of biochemistry, cell biology and molecular biology. Upon completion, students will understand normal functions and be able to recognize pathologies. Course Schedule

VOC AR121 CADD and Digital Design Media - Level I 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

CADD Level I (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields, including spreadsheet, CAD, and presentation application. Field trips required. Course Schedule

VOC AR141 Design Drawing and Communicaton 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Architectural drawing techniques including graphic standards, scales, orthographic, paraline, and perspective projections. Field trips required. Course Schedule

VOC AR147 Architectural CAD and BIM 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 71

3-D Computer Aided Design and Drafting (CAD) and Building Information Modeling (BIM) for architectural design and design development. Portfolio of 3-D building models and extracted 2-D drawings will be produced. Field trips required.

Course Schedule

VOC AR222 Advanced Digital Design, Illustration and Animation 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 71

Architectural Computer Aided Design (CAD), 3-Dimensional (3-D) illustration, rendering and animation. Virtual walk-through and fly-through videos of interior and exterior 3-D models with photo-realistic materials and lighting will be produced. Course Schedule

VOC AR247 Architectural CAD Working Drawings 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 71

Architectural Computer Aided Design (CAD) for design development and working drawings. Portfolio of working drawings using Building Information Modeling (BIM) and CAD applications of integrated 3-D and 2-D BIM/CAD models will be produced. Field trips required. Course Schedule

VOC ARC11 Architectural Drawing

0 Units (May be taken four times for credit) Lecture: 36 Lab: 72

Architectural drawing techniques, including graphic standards, scales, orthographic, paraline and perspective projections. Course Schedule

VOC ARC16 Basic CAD and Computer Applications 0 Units

(May be taken four times for credit) Lecture: 54 Lab: 54

Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Course Schedule

VOC ARC18 Architectural CAD and BIM 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 72

3-D Computer Aided Design and Drafting (CAD) and Building Information modeling (BIM) for architectural design and design development. Portfolio of 3-D building models and extracted 2-D drawings will be produced.

Course Schedule

VOC ARC26 Advanced Architecture Computer 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 72

Advanced architectural CAD drawings. Portfolio of working drawing and presentation applications of integrated 2-D and 3-D CAD models will be produced.

Course Schedule

VOC ARC28 Architectural CAD Illustration and Animation 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 71

Architectural CAD in 3-D illustration, rendering and animation. Virtual "walk-through" and "fly through" of interior and exterior 3-D models with photo-realistic materials and lighting will be produced.

Course Schedule

VOC BA07 Principles of Accounting - Financial 0 Units

(May be taken four times for credit) (May be taken for Pass/No Pass only) Lecture: 90

Financial accounting required of Business Administration and Accounting majors. Defines financial accounting and its relevance to business decision-makers, accounting concepts and techniques, analysis and recording of financial transactions, and preparation, analysis and interpretation of financial statements focusing on application of generally accepted accounting practices. Includes asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, ethics, and financial statement analysis. General Ledger Accounting Software program is integrated throughout and used to complete various homework assignments.

Course Schedule

VOC BA11 Fundamentals of Accounting 0 Units

(May be taken two times for credit) Lecture: 54

Accounting vocabulary and theory, equations to solve word problems, simple and compound interest, present value, consumer and business credit, mortgages, financial statements and ratios, inventory, depreciation, business taxes, investments. Course Schedule

VOC BA68 Business Mathematics

0 Units (May be taken two times for credit) Lecture: 54

Addition, subtraction, multiplication, division, decimal, percentages, fractions, sign numbers, equations, and problem-solving. Course Schedule

VOC BA70 Payroll and Tax Accounting 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

On-the-job payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for Social Security, federal, and state income taxes and their reconciliation. Laws related to Worker's Compensation, State Disability Benefit Laws and Fair Employment Practices are discussed. Course Schedule

VOC BA71 Personal Financial Planning 0 Units

(May be taken two times for credit) Lecture: 54

Integrative approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. Students will examine their relationships with money, set personal goals, and develop a plan to meet those goals. Topics include consumerism, debt, healthcare, investing, retirement, long-term care, disability, death, and taxes. Course Schedule

VOC BA72 Bookkeeping - Accounting 0 Units

(May be taken two times for credit) Lecture: 90

Bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of an accounting project for a company. Course Schedule

VOC BA75 Using Microcomputers in Financial Accounting 0 Units

(May be taken two times for credit) Lecture: 18

Accounting concepts utilizing QuickBooks, a general-ledger software program. Hands-on use of a microcomputer to process accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.

Course Schedule

VOC BA76 Microcomputers in Managerial Accounting 0 Units

(May be taken two times for credit) Lecture: 18

Analysis of financial data and preparation of managerial accounting reports using Excel software. Development of what-if formulas to be used as an aid in decision-making. Incudes manufacturing and consolidation worksheets, financial statement analysis, and statements of cash flow. Course Schedule

VOC BCDP Basic Computing - Desktop Publishing 0 Units

(May be taken three times for credit) Lecture: 18

Basic desktop publishing to create and produce professional-looking publications. Course Schedule

VOC BCPP1 PowerPoint Basics 1

0 Units (May be taken three times for credit) Lecture: 18

Basic use of PowerPoint to create slide presentations. Course Schedule

VOC BCPP2 PowerPoint Basics 2

0 Units (May be taken three times for credit) Lecture: 18

Create PowerPoint presentations using text and object animation, video, audio, and hyperlinks. Course Schedule

VOC BM10 Principles of Continuous Quality Improvement 0 Units

(May be taken two times for credit) Lecture: 54

History and evolution of thought in Continuous Quality Improvement, including the theories and methods of Deming, Juran, and Crosby. Quality management process and tools for the continuous improvement of quality are presented. Relevant case studies are included. Course Schedule

VOC BM20 Principles of Business

0 Units (May be taken two times for credit) Lecture: 54

Business and its functions, background, development, organization, and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices. Course Schedule

VOC BM51 Principles of Internation Business 0 Units (May be taken two times for credit) Lecture: 54

International business environment with a global perspective. Introduces global viewpoints across the full spectrum of business functions, including, but not imited to: accounting, finance, human resources, management, operations, production, purchasing and strategic planning. Course Schedule

VOC BM52 Principles of Exporting and Importing 0 Units

(May be taken two times for credit) Lecture: 54

Practical information needed to participate in activities related to the exporting and importing of goods and services. Includes vocabulary, acronyms and information needed for an understanding of and participating in the exporting of goods and services. Course Schedule

VOC BM60 Human Relations in Business 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Inter-disciplinary study of how people work and relate at the individual, group and organizational level. Topics include motivation, team work, leadership skill and how to handle organizational change. Course Schedule

VOC BM61 Business Organization and Management 0 Units

(May be taken four times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Functions of management, techniques of decision making and problem solving, and methods used by managers to achieve organizational goals. Theories of management, lines of authority, functions of departments, and the importance of policies, procedures and controls. Course Schedule

VOC BM62 Human Resource Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Direction of people including guidance, control supervisory problems, training, job analysis, interviewing, testing, rating and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the business organization. Course Schedule

VOC BM66 Small Business Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Organizing, starting, and operating a small business enterprise. Emphasis on entrepreneurial applications in a small business environment. Course Schedule

VOC BM85 Special Issues in Business 0 Units

(May be taken four times for credit) Lecture: 36

Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Course Schedule

VOC BO05 Business English 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Skills and techniques of English, as applied to business situations. emphasis on effective document structure. Course Schedule

VOC BO25 Business Communication 0 Units (May be taken two times for credit)

Lecture: 54 Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news

of situations in the business environment. Includes writing of good news, bad news, sales, claims, and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports. Course Schedule

VOC BO26 Oral Communications for Business

0 Units (May be taken two times for credit) Lecture: 54

Oral communication used in business situations such as training sessions, presentations, professional discussion, and telephone interactions. Course Schedule

VOC BR52 Real Estate Practice

0 Units (May be taken four times for credit) Lecture: 54

Office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. A course in real estate practice must be completed within 18 months of licensure. Course Schedule

VOC BS35 Professional Selling

0 Units (May be taken two times for credit) Lecture: 54

Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer behavior, and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept. Course Schedule

VOC BS36 Principles of Marketing 0 Units

(May be taken two times for credit) Lecture: 54

Organization and function of system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional, and pricing strategies. Course Schedule

VOC BS50 Retail Store Management and Merchandising 0 Units

(May be taken two times for credit) Lecture: 54

Principles and practices used in the management and merchandising of retail stores. Includes critical buying function, merchandising, promotional techniques, sit selection, layout, staffing, market positioning, and customer service. Course Schedule

VOC BS70 International Marketing Concepts 0 Units

(May be taken four times for credit) Lecture: 54

Factors unique to foreign economics, cultural environments, political/ legal problems, marketing intelligence procedures, international product policy, distribution and market channels, promotion and pricing decisions. Course Schedule

VOC BS85 Special Issues in Marketing 0 Units

(May be taken four times for credit) Lecture: 36

Provides marketing majors with a forum to gain knowledge, develop techniques, problem-solve and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Course Schedule

VOC CNT50 PC Servicing

0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment. Course Schedule

VOC CNT52 PC Operating Systems 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Current operating systems required for A+ and Network+ Certification and general computer servicing. Includes: identification of major components, installation, configuration, upgrading, and troubleshooting. Course Schedule

VOC CNT54 PC Troubleshooting 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Personal computer (PC) servicing. Includes isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam. Course Schedule

VOC CNT60 A+ Certification Preparation 0 Units

(May be taken two times for credit) Lecture: 36

Prepares the student and qualified computer technician for the A+ Certification Examination. All aspects of the A+ Essentials and A+ Practical Application test modules will be stressed through both lecture review and test simulation software. Course Schedule

VOC CNT62 Network+ Certification Preparation 0 Units

(May be taken two times for credit) Lecture: 36

Prepares the student or A+ certified technician for the Network+ Certification Examination. Includes Open System Interconnection (OSI) model, Transmission Control Protocol/Internet Protocol (TCP/IP), and implementing, installing, maintaining, and supporting networks. Course Schedule

VOC CPBC1 Basic Computing - Level 1 0 Units (May be taken three times for credit)

Lecture: 54

Introduction to the personal computer, including terminology and basic computer operations in a Windows environment. Course Schedule

VOC CPBC2 Basic Computing - Level 2

0 Units (May be taken three times for credit) Lecture: 54

Create documents in applications such as Microsoft Word; includes basic computer maintenance and problem-solving techniques. Course Schedule

VOC CPBC3 Basic Computing - Level 3 0 Units

(May be taken three times for credit) Lecture: 54

Software application skills including creative projects which introduce computer graphics. Course Schedule

VOC CPBE1 Basic Excel - Level 1

0 Units (May be taken three times for credit) Lecture: 18

Introduction to Excel, including terminology, and working with data in a spreadsheet application. Course Schedule

VOC CPBE2 Basic Excel 2 0 Units

(May be taken three times for credit) Lecture: 18

Basic functions in Excel including formulas, sorting, filtering data, and formatting tables. Course Schedule

VOC CPBE3 Basic Excel 3

0 Units

(May be taken three times for credit) Lecture: 18

Basic Excel including storing, manipulating and analyzing data in spreadsheets and displaying data graphically using charts. Course Schedule

VOC CPCC Creative Computing

0 Units (May be taken three times for credit) Lecture: 54

Creative skills in utilizing graphic designs for projects such as business cards, letterhead, labels, flyers, posters, greeting cards, and computergenerated fabric designs. **Course Schedule**

VOC CPCL Computer Laboratory 0 Units Lab: 1-320

A laboratory study program designed to complement the lecture materials presented in computer program instructional courses. **Course Schedule**

VOC CPDI Digital Photography for the Beginner 0 Units

(May be taken three times for credit) Lecture: 54

Digital camera operations, image management, composition, and use of graphics software. Course Schedule

VOC CPNET Internet Research - an Introduction 0 Units

(May be taken three times for credit) Lecture: 54

Fundamental Internet functions including terminology, email, search engines and research tools. **Course Schedule**

VOC CS11 Computer Keyboarding 0 Units

(May be taken four times for credit) Lecture: 54

Formerly VOC CP01 Develops alpha and numeric keyboarding skills on a personal computer at a straight-copy rate of 25 to 40 gross words a minute, with a predetermined error limit. Includes keyboarding of letters, tables and manuscripts.

Course Schedule

VOC CS12 Intermediate Computer Keyboarding 0 Units (May be taken four times for credit) Lecture: 54

Develops computer keyboarding speed and accuracy with a proficiency standard upon completion of 35-55 gross words a minute with a predetermined error limit. Uses word processing software to format letters, memos, reports, tables and other related business documents. (Formerly VOC CP02) **Course Schedule**

VOC CS41 Office Management Skills

0 Units (May be taken four times for credit) Lecture: 54

Formerly VOC CP28 Filing, proofreading, telephone techniqus, faxing, emailing; electronic calendaring of events, appointments and meetings. **Course Schedule**

VOC CSB10 Office Skills 0 Units (May be taken two times for credit) Lecture: 54

Skills necessary to work in an office setting including: alpha and numeric keyboarding, email etiquette and standards, electronic calendaring, tenkey, composing, formatting and storing business documents, telephone techniques.

Course Schedule

VOC CSB11 Computer Information Systms 0 Units (May be taken two times for credit)

Lecture: 54 Lab: 27

Overview of computer information systems including computer hardware, software, networking, programming, databases, Internet, security, systems analysis, ethics, and problem solving using business applications.

Course Schedule

VOC CSB15 Microcomputer Applications 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 27

Windows operating system and applications; simple business examples using up-to-date browser; word processing, spreadsheet, database management and presentation software; and integration of software applications.

Course Schedule

VOC CSB16 Macintosh Applications 0 Units

(May be taken four times for credit) Lecture: 27 Lab: 27

Macintosh computer skills including the operating system and wordprocessing, database, spreadsheet and multimedia applications. **Course Schedule**

VOC CSB31 Microsoft Word 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54

Word processing with Microsoft Word and its editing, formatting, and language tools to create, edit and format business and publication documents. Includes creating flyers, newsletters and other publications documents using advanced formatting techniques and tools. Course Schedule

VOC CSB51 Microsoft PowerPoint 0 Units

(May be taken two times for credit) Lecture: 54

Using PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams and storyboards; developing appropriate text content; adding sound, animation, and movies. Course Schedule

VOC CSB61 Desktop Publishing Software 0 Units

(May be taken four times for credit) Lecture: 54

Formerly VOC CP60 Using desktop publishing software to integrate text and various graphic objects, design, edit and produce a variety of highquality business publications. Course Schedule

VOC CSW15 Web Site Developmen 0 Units

(May be taken four times for credit) Lecture: 54 Lab: 27

Use of professional visual Web-authoring application to plan, develop, implement publish and maintain Web sites. Course Schedule

VOC EDT16 Basic CAD and Computer Applications

(May be taken four times for credit) Lecture: 54 Lab: 54

Basic CD (Computer Aided Design and Drafting) and computer application in engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications. Course Schedule

VOC EDT18 Engineering CAD Applications 0 Units

(May be taken four times for credit) Lecture: 54 Lab: 54

Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling. Course Schedule

VOC EL10 Introduction to Mechatronics 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 54

An introduction to the field of mechatronics, a combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hands-on activities include the building of a robot. Course Schedule

VOC EL11 Technical Applications in Microcomputers 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Personal computer (PC) applications used in electronics technology. Includes word processing, spreadsheets, database, computer presentation methods, and internet research specifically designed for electronics technology. Course Schedule

VOC EL12 Computer Simulation and Troubleshooting 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 54

Use of the personal computer for simulation and troubleshooting of analog and digital circuits. National Instruments Multisim software will be used for circuit analysis, value substitution, and fault diagnostics. Course Schedule

VOC EL50A Electronic Circuits (DC)

0 Units (May be taken two times for credit) Lecture: 54 Lab: 54

Direct Current (DC) electrical circuits and their applications. Covers DC sources, analysis, test equipment, measurements and troubleshooting of resistive devices and other basic components. Includes Ohm's Law, Kirchhoff's Law and network theorems (Students seeking a survey course in electronics should take VOC EL10, Introduction to Mechatronics, rather than VOC EL50A or 50B.) Course Schedule

VOC EL50B Electronic Circuits (AC) 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 54

Alternating Current (AC) electrical circuits and their applications. Covers AC sources, analysis (using complex numbers), test equipment, measurements, and troubleshooting of basic circuits with capacitors, inductors, and resistors. Includes impedance, resonance, filters, and decibels.

Course Schedule

VOC EL51 Semiconductor Devices & Circuits 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Solid-state devices and circuits, including bipolar-junction and field-effect transistors, rectifier diodes, operational amplifiers, and thyristors. Analog circuits studied include discrete and integrated circuit amplifiers, voltage regulators, oscillators and timers. Emphasizes configurations, classes, load lines, characteristic curves, gain, troubleshooting, measurements, and frequency response. Course Schedule

VOC EL53 Communications Systems 0 Units

(May be taken four times for credit) Lecture: 54 Lab: 54

Analog and digital communications circuits. Emphasizes analog and digital modulation principles, fiber optics, multiplexing and telecommunications circuits. Course Schedule

VOC EL54A Industrial Electronics 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Industrial electronic components and basic control circuits. Includes time delay controls, thyristor controls, relays, optoelectronic devices, DC and AC motor control, transducers, silicon controlled rectifier (SCR), and unijunction transistor (UJT) devices. Course Schedule

VOC EL54B Industrial Electronic Systems 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Systems application of industrial electronics including industrial production and processes, automation, and programmable and motor controllers. Emphasis is on programmable logic controllers (PLCs) Course Schedule

VOC EL55 Microwave Communications 0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Microwave components and circuits. Stresses transmission lines, Smith Charts, impedance matching, antenna characteristics, wave propagation, frequency analysis, and measurement techniques. Course Schedule

VOC EL56 Digital Electronics 0 Units (May be taken two times for credit)

Lecture: 54 Lab: 54

Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques.

Course Schedule

VOC EL61 Electronic Assembly and Fabrication

0 Units (May be taken two times for credit) Lecture: 36 Lab: 54

Manufacturing and fabrication processes associated with the electronics industry. Printed circuit board (PCB) design from conception to completion. Emphasizes electrical schematics, bill of material (BOM), component selection, layout design, manufacturability, assembly, soldering, de-soldering, and surface-mount technology. Course Schedule

VOC EL62 Advanced Surface Mount Assembly 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 54

Advanced course in assembly and repair (soldering) on surface mount assemblies (SMT). Prepares for the IPC surface mount assembly and rework certifications. Course Schedule

VOC EL74 Microcontroller Systems

0 Units (May be taken two times for credit) Lecture: 54 Lab: 54

Microcontroller systems and programming methods; programmable logic devices (PLDs); serial communications; conversion of signals from analog to digital formats and the converse. Industry applications, interfacing and troubleshooting. Course Schedule

VOC EL76 FCC GROL Preparation

0 Units (May be taken four times for credit) Lecture: 54

Prepares qualified electronics and aviation technicians for the FCC commercial general radiotelephone operator license (GROL). Course Schedule

VOC EL81 Lab Studies in Electronics

0 Units (May be taken four times for credit) Lab: 54

Extended laboratory experience supplementary to those available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments. Course Schedule

VOC ESD02 Production of Boutique Crafts for Retail Sales 0 Units

(May be taken three times for credit) Lab: 54

Design and production of boutique crafts for the older adult population. Includes marketing, pricing, cost analysis, and emerging technology. Course Schedule

VOC ESD03 Lettering Styles and Advertising Calligraphy 0 Units

(May be taken three times for credit) Lab: 54

Styles of calligraphy as they are used in art, media, and advertising for the older adult population. Includes size, placement, styles, and emerging technology. Course Schedule

VOC ESD05 Intermediate Ceramic Productions 0 Units

Lab: 1-54

Ceramic painting techniques to create finished ceramic pieces for the older adult population. Pricing and display will be covered. Course Schedule

VOC ESD06 Craft Painting for Business Opportunities 0 Units

Lab: 1-54

Paint on various types of surfaces including fabric, glass, wood, plaster and plastic. Includes product design, marketing and proper use of equipment and maintenance and emerging technology. Course Schedule

VOC ESD07 Handcrafted Needlework for Retail Sales 0 Units

(May be taken three times for credit) Lab: 54

Needlework technique including knitting, crocheting, embroidery, needlepoint for plastic canvas, and emerging technology to construct finished products for sale. Course Schedule

VOC ESD08 Jewelry Production and Design for Retail Sales 0 Units

(May be taken three times for credit) Lab: 54

Design and construct wire-worked jewelry using beads and stones with various methods of wire wrapping, coiling, hammering, and emerging technology. Course Schedule

VOC ESD09 Sewing and Design 0 Units

(May be taken three times for credit) Lab: 54

Basic sewing techniques for the older adult population, including basic tailoring, pattern reading, cutting, and style design to construct professional looking garments. Course Schedule

VOC ESD10 Beginning Decorative Art Production for Retail Sales 0 Units

(May be taken three times for credit) Lab: 54

Introduction to decorative painting and associated mediums for the older adult population, including painting on a variety of surfaces using tole art brush strokes used in folk art, stenciling and other design applications and emerging technology. Course Schedule

VOC ESD11 Intermediate Decorative Art Production for Retail Sales 0 Units

(May be taken three times for credit) Lab: 54

Intermediate tole art brush strokes on a variety of surfaces using acrylic paints, associated mediums, and emerging technology to create finished products for the older adult population. Course Schedule

VOC ESD15 Jewelry and Lapidary Production Design 0 Units

(May be taken three times for credit) Lab: 18

Jewelry making, stone cutting, polishing, and lapidary work, using emerging technology. Course Schedule

VOC EST50 Electrical Fundamentals for Cable Installations 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 54

Electrical fundamentals for cable and wire installations, and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license. Course Schedule

VOC EST51 Electrical & Tool Fundamentals 0 Units

(May be taken three times for credit) Lecture: 54 Lab: 54

Electrical and tool(hand and power) fundamentals for low voltage systems used in residential, and commercial security, networks, and audio/video systems. Topics include tool fundamentals, DC/AC sources and components, solid-state devices, digital devices, and their application to low voltage systems.

Course Schedule

VOC EST52 Fabrication Techniques for Cable Installations 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 54

Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations. Prepares students for the California State Contractors C-7 low voltage systems license. Course Schedule

VOC EST53 Residential/Office System Installations 0 Units

(May be taken three times for credit) Lecture: 54 Lab: 54

Residential/office systems and their installations. Emphasis on security, audio/video systems, wiring and cable standards and the installation techniques required for such systems. Course Schedule

VOC EST54 Cable and Wiring Standards 0 Units

Lecture: 54 Lab: 54

Cable and wire standards of video, voice, and data wiring for home theater, computer networks, home automation, telecommunications, and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 low voltage systems license. Course Schedule

VOC EST56 Home Theater, Home Integration & Home Security Systems 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 54

Home theater, home integration, home management Power Line Carriers (PLCs), security hardware and programming, and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 low voltage systems license. Course Schedule

VOC EST61 Electronic Circuits/Systems Troubleshooting 0 Units

(May be taken three times for credit) Lecture: 54 Lab: 54

Troubleshooting basic electronic circuits and systems to component level. Circuits include power supplies, amplifiers, audio circuits, and video systems.

Course Schedule

VOC EST62 Electronic Troubleshooting 1 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 54 Lab: 54

Troubleshooting basic electronic circuits and systems to component level. Circuits include: power supplies, amplifiers, audio circuits, home theater audio (Dolby 5.1), and video circuits (analog TV). Course Schedule

VOC EST64 Electronic Troubleshooting 2

0 Units (May be taken two times for credit) Lecture: 54 Lab: 54

Troubleshooting advanced electronic video circuits and systems to component level. Includes HDTV (plasma, LCF, DLP). Course Schedule

VOC FDB1 Financial and Database Managment 1 0 Units (May be taken three times for credit)

Lecture: 4-288

Short-term introduction to small business and database software to introduce elementary computer literacy. Data entry in small business accounting management software. Create customers, vendors, and basic transactions. Design simple databases and explore database objects including simple forms, reports, and queries. Course Schedule

VOC FDB2 Financial and Database Management 2 0 Units

(May be taken three times for credit) Lecture: 4-288

Further instruction in basic computer literacy for small business and database software. Process sales tax, refunds, discounts, and credits using small business accounting software. Create classes and basic estimates. Modify reports, queries, and forms. Course Schedule

VOC FSH08 Introduction to Fashion 0 Units

(May be taken two times for credit) Lecture: 54

Fashion industry as a whole, including raw materials, manufacturing, retailing, technology, world economics, globalization, and careers. Includes apparel design, manufacturing, retail merchandising, sales, promotion, textile production, and career opportunities. Course Schedule

VOC FSH09 History Costume and Fashion 0 Units

(May be taken two times for credit) Lecture: 54

Survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on style development as it relates to social, economic and political forces, and the relationship of historic styles to current fashion. Course Schedule

VOC FSH10 Clothing Construction 1 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Essentials of industry standard apparel construction techniques using a variety of machines and equipment. Students will be given instruction in single needle machine operation, industrial overlock operation, and garment assembly. Course Schedule

VOC FSH12 Clothing Construction 2

0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Advanced industry construction techniques using overlock and single needle machines. Course Schedule

VOC FSH15 Aesthetic Design 0 Units

(May be taken four times for credit) Lecture: 54

Design principles and influences in apparel selection and fashion design. Projects applying design elements and principles using CAD software. Course Schedule

VOC FSH17 Textiles

0 Units (May be taken two times for credit) Lecture: 54

Manufacturing of textiles and fabrics and the factors that determine the suitability for end use. Topics include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation, and care. Emphasis is on selection criteria for textile product design and recent developments in the textile field.

Course Schedule

VOC FSH20 Illustration for Fashion and Costume Design 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Drawing techniques for fashion and theatrical costume design. Application of the basic techniques used in drawing a well-proportioned male and female figure and in rendering garment flats using texture, fabric and design detail. Students will explore a variety of mediums. Course Schedule

VOC FSH21 Patternmaking 1 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, patterns will be created, constructed, and fitted. Course Schedule

VOC FSH22 Fashion Design by Draping 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Three dimensional dress design through draping fabrics directly to a dress form to create original designs and patterns to interpret fashion illustrations and technical flats. Course Schedule

VOC FSH23 Patternmaking 2

0 Units (May be taken two times for credit) Lecture: 36 Lab: 54

Intermediate pattern drafting and flat patternmaking, with an introduction to the grading of patterns and technical packages. Development of patternmaking skills to include drafting flat patterns from measurements and creating advanced sleeves and collars. Students apply patternmaking theories to create ready-to-wear sportswear designs for misses and women's wear. Course Schedule

VOC FSH62 Retail Store Management and Merchandising 0 Units

(May be taken four times for credit) Lecture: 54 Lab: 18

Principles and practices used in the retail buying and merchandising environment. This course emphasizes the buyer's role in merchandising management, pricing strategies, promotion, retail formulas and costing calculations.

Course Schedule

VOC GOG10 Introduction to Geographic Information Systems (GIS) 0 Units

(May be taken four times for credit) Lecture: 54

An introduction to the fundamentals of a geographic information system (GIS), including history of automated mapping; introduction to cartographic principles; overview of software, such as ArcView; hardware; application of GIS technology in environmental sciences, government, business, terminology, data and spatial analysis. Course Schedule

VOC GRP10 Photoshop Imagery 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Adobe Photoshop software skills, techniques and digital workflow practices from digital image editing and retouching to the composited imagery commonly created for using photography, commercial design, printing and publishing, the internet and multimedia authoring production.

Course Schedule

VOC GRP12 Advanced Photo Editing with PhotoShop 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Adobe Photoshop Extended software skills and techniques for the creative photorealistic imagery commonly used in photography, commercial design, printing and publishing, the Internet and multimedia authoring production. Course Schedule

VOC GRP16 Illustrator Graphics

0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Adobe Illustrator software skills, techniques and digital workflow from essential digital drawing basics to creatively conceived illustrative imagery and renderings commonly created for use in commercial design, printing and publishing, the Internet and multimedia authoring production.

Course Schedule

VOC GRP18 Advanced Image Design - 3D Modeling Techniques 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

3D graphics modeling software skills and production techniques from 2D orthographic drawing to the creatively conceived 3D imagery and animated environments commonly created for self-expression, entertainment, commercial design, printing and publishing, the Internet and multimedia authoring production. Course Schedule

VOC GRP20 Applying Photos and Images in Multimedia 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Multimedia graphics software skills and production techniques for combining text, image, audio, video, animation and scripting media to author multimedia projects commonly created for self-expression, entertainment, commercial design, the Internet and multimedia production.

Course Schedule

VOC GRP8 Digital Media

0 Units (May be taken four times for credit) Lecture: 36 Lab: 54

Introductory course for all disciplines interested in learning scientific concepts, terminology and basic techniques used to produce digital media content. Includes software such as Adobe Photoshop, Apple iPhoto and iMovie, and computer and other electronic hardware techniques necessary to acquire, store, edit, transfer or output digital media files.

Course Schedule

VOC HBB1 Starting a Home-Based Business 0 Units (May be taken three times for gradit)

(May be taken three times for credit) Lecture: 24

Starting a home-based business to become self-employed. Includes basic marketing, finance and management skills. Course Schedule

VOC HBB2 Managing and Growing Your Home-Based Business 0 Units

(May be taken three times for credit) Lecture: 24

Managing day-to-day business activities to increase revenue and profitability to grow a home-based business. Course Schedule

VOC HBBUS Starting a Home-Based Business 0 Units

(May be taken four times for credit) Lecture: 24

Starting a home-based business to become self-employed. Includes basic marketing, finance and management skills. Course Schedule

VOC HHA Home Health Aide

0 Units (May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 20 Lab: 20

Preparation to work in a skilled nursing facility and to pass the California Long-Term Care CNA Exam. Course Schedule

VOC HTH01 Certified Nursing Assistant

0 Units

(May be taken four times for credit) Lecture: 68 Lab: 102

Preparation to work in a skilled nursing facility and to pass the California Long-Term Care CNA exam. Course Schedule

VOC HTH04 Acute Care CNA

0 Units (May be taken four times for credit) Lecture: 32 Lab: 64

Preparation of CNA to provide basic personal care to patients in acute care facilities and hospitals. Course Schedule

VOC HTH05 Health Careers Skills Lab (HCRC) 0 Units

(May be taken two times for credit) Lab: 1-320

Health occupational training and experience using instructional equipment and simulators for health occupation competencies. Course Schedule

VOC HTH12 Medical Terminology 0 Units

(May be taken two times for credit) Lecture: 54

Medical terminology used in various allied health fields. Course Schedule

VOC ID10 Intro to Interior Design 0 Units

(May be taken four times for credit) Lecture: 36

Provides a foundation for further training in careers including Interior Design, Furnishings and Maintenance; Interior Decorating; and Environmental Interior Design & Architecture. Course Schedule

VOC ID10L Introduction to Interior Design Laboratory 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lab: 54

Application of the interior design practice and the planning of total interior environments that meet individual, functional and environmental needs. Field trips may be required. Course Schedule

VOC ID12 Materials and Products for Interior Design 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Analysis, application, and evaluation of products and materials used in interior design. Field trips required. Course Schedule

VOC ID14 History of Furniture and Decorative Arts 0 Units

(May be taken four times for credit) Lecture: 54

Historic development of structure, interior spaces, furniture and decorative arts throughout the world. Course Schedule

VOC IHSS In-Home Support Service 0 Units

(May be taken four times for credit) Lecture: 120-150

Preparation to assist elderly, disabled and ill persons living at home. Communication skills, maintenance of a healthy environment, and procedures for emergencies. Physical, emotional and developmental characteristics of the patients served, personal hygiene, safe transfer techniques and basic nutrition. Course Schedule

VOC MF10 Mathematics & Blueprint 0 Units

(May be taken four times for credit) Lecture: 54

Applications of mathematical principles, including fractions, decimals, ratio and proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry. Course Schedule

VOC MF11 Manufacturing Processes 1

0 Units (May be taken four times for credit) Lecture: 18 Lab: 54

Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines. Course Schedule

VOC MF12 Manufacturing Processes 2 0 Units (May be taken four times for credit) Lecture: 18 Lab: 54

The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallurgy, heat treatment, precision grinding and basic tool design. Course Schedule

VOC MF38 MasterCAM 1

0 Units (May be taken four times for credit) Lecture: 18 Lab: 54

Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes. Course Schedule

VOC MF38B Advanced MasterCAM

0 Units

(May be taken four times for credit) Lecture: 18 Lab: 54

Use MasterCAM software to create wire-frame 3D/multi-axis part geometry, add tool paths, and create CNC code for CNC mills and CNC lathes. Course Schedule

VOC MF38C MasterCAM Solids

0 Units (May be taken four times for credit) Lecture: 18 Lab: 54

Using MasterCAM software to design wire drawings, translate to solids drawings, and generate code from a solids creation to meet industrial standards. Course Schedule

VOC MF85 Manual CNC Operations 0 Units

(May be taken four times for credit) Lecture: 18 Lab: 54

Theory and practice in manually developing CNC programs. Methods of transmitting data to CNC machines and physical set-up and operations of CNC equipment. Course Schedule

VOC NF81 Cooking for Your Heart and Health 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 12 Lab: 20

Basic food preparation knowledge, skills, and experience. Principles and techniques of healthful food preparation and investigation of chronic disease prevention through dietary means. Includes laboratory experience in preparation of healthful foods and meals. Basic food preparation knowledge, skills, and experience is advised. Off-campus meetings may be required. Course Schedule

VOC NF82 Vegetarian Cuisine

0 Units (May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 12 Lab: 20

Principles and techniques of vegetarian food preparation and investigation of issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals. Basic food preparation knowledge, skills, and experience advised. Off-campus meetings may be required. Course Schedule

VOC PHO01 Laboratory Studies: Black and White Photography 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lab: 54

Extended black and white laboratory experiences to supplement those avalable in the regular program. Provides students the opportunity to pursue and improve advanced projects and experiments. Course Schedule

VOC PHO02 Laboratory Studies - Color Photography 0 Units

(May be taken four times for credit) Lab: 54

Extended color laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Course Schedule

VOC PHO04 Digital Cameras and Composition 0 Units (May be taken four times for credit)

Lecture: 18

Use of digital cameras, lenses, filters and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week. Course Schedule

VOC PHO09 Digital Image Edit/Photographe 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Software and techniques including digital workflow practices, digital image editing, enhancing and retouching methods commonly used in photography.

Course Schedule

VOC PHO10 Basic Digital and Film Photography 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Basic mechanical, optical and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques. Course Schedule

VOC PH011 Advanced Professional Photography 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 108

Current professional techniques and studio lighting. Includes studio and field assignments related to problems encountered while professionally photographing people and products. Topics include medium and large format film and digital cameras, computer basics for professional photographers and studio lighting. Students must furnish a digital single lens reflex (DSLR) camera. Field trips may be required. Course Schedule

VOC PHO12 Photograph Alternatives 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Alternative photographic processes. Instant films: lifts and transfers, specialized lighting, stain toning, emulsion coating, and scenography will be applied to produce images not considered common to making photographic prints. Course Schedule

VOC PHO14 Commercial Lighting 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Use of studio equipment, and studio and location lighting techniques used in all aspects of commercial photographic applications. Field trips may be required. Course Schedule

VOC PH015 History of Photography 0 Units

(May be taken two times for credit) Lecture: 54

Survey of history of photography from early 1800's to the present, introducing various concepts of photo representation and their impact on society. Field trip required. Course Schedule

VOC PHO16 Fashion and Editorial Portrait Photography 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Fashion and editorial portrait photography with studio and location lighting techniques, creative concepts, styling, and working with models. Course Schedule

VOC PH017 Photocommunication 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Affects that camera controls have on visual communication with photographs. Includes message enhancement using optical and digital controls, depth of field, lenses, lighting, composition, book, black and white vs. color images, and documentary and journalistic styles. Course Schedule

VOC PHO18 Portraiture and Wedding Photography 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Professional studio and field techniques for portrait and wedding photography. Off-camera assignment or field trips may be required. Course Schedule

VOC PHO19 Digital Color Management 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Digital color management software and hardware skills, techniques and digital workflow practices commonly used in photography. Course Schedule

VOC PHO1A Laboratory Studies: Beginning Black and White Photography

0 Units (May be taken four times for credit)

(May be taken for Pass/No Pass only) Lab: 54

Extended black-and-white laboratory experiences to improve skills through further instruction and practice, as well as pursue more advanced projects and experiments. Course Schedule

VOC PHO1B Laboratory Studies: Advanced Black and White Photography 0 Units

(May be taken four times for credit) (May be taken for Pass/No Pass only) Lab: 54

Extended advanced black and white laboratory experiences with medium and large format cameras to improve skills and pursue more advanced photographic printing, processing, and enlarging techniques. Course Schedule

VOC PHO1C Laboratory Studies: Studio Photography 0 Units

(May be taken four times for credit) (May be taken for Pass/No Pass only) Lab: 54

Extended studio photography experiences to supplement those available through the regular program. Provides students the opportunity to improve skills through further instruction and practice, as well as pursue more advanced projects and experiments. Course Schedule

VOC PHO1D Laboratory Studies: Computer Applications in Photography 0 Units

(May be taken four times for credit) (May be taken for Pass/No Pass only) Lab: 54

Extended computer laboratory experiences to supplement those available in the regular program. Provides students the opportunity to improve skills through further instruction and practice, as well as pursue more advanced projects and experiments. Course Schedule

VOC PHO20 Color Photography 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Use of color principles as they relate to commercial and artistic styles. This includes lighting, color theory, color management, exaggerated and unique color schemes applied color psychology principles. Course Schedule

VOC PHO21 Exploring Color Photography 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Use of color principles as they relate to commercial and artistic styles and innovative use of color applications. Includes lighting and unusual techniques, exaggerated and unique color schemes, light-painting, lighting effects, high dynamic range effects and oversize output. Course Schedule

VOC PHO24 Advanced Digital Image Editing for Photographers 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 36 Lab: 54

Advanced software and techniques for digital image editing, archiving, and retouching used in commercial photography. Course Schedule

VOC PHO28 Photography Portfolio Development 0 Units

(May be taken two times for credit) Lecture: 36 Lab: 54

Development of a photography portfolio for use in job application or gallery exhibition purposes. Field trips may be required. Course Schedule

VOC PHO30 Commercial and Illustrative Photography 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

Overview of the commercial photographic industry. Exploration of the various commercial photography specialties including studio product and people photography, lifestyle, fashion and industrial/location photography with an emphasis on the development of a personal creative style. Field trips may be required. Course Schedule

VOC PT81 Physical Therapy Aide

0 Units

(May be taken two times for credit) Lecture: 54 Lab: 54

Role and skills of physical therapy aide. Includes terminology, procedures and interpersonal skills. Course Schedule

VOC RDTEC Intravenous Therapy for Radiologic Technology 0 Units

Lecture: 10 Lab: 10

Principles and techniques of venipuncture. Includes anatomy and physiology of sites, instruments, intravenous (IV) solutions, equipment, puncture techniques, hazards and compications, emergency care, postpuncture care. Course Schedule

VOC ST1 Sewing and Tailoring 1 0 Units

(May be taken three times for credit) Lab: 4-54

Patternmaking and garment fitting with flat pattern and draping methods, learned through process of creating a personal fitting form. Course Schedule

VOC ST2 Sewing and Tailoring 2 0 Units (May be taken three times for credit)

Lab: 54

Haute couture garment construction, including couture tailoring techniques for inner structure, finishing, and achieving superior overall appearance. Course Schedule

VOC TCH60 Customer Relations for the Technician 0 Units (May be taken two times for credit)

(May be taken for Pass/No Pass only) Lecture: 36

Customer relations (soft skills)for the technician including benefits for knowing and using effective customer contact tools, proper customer interactions, ethics and maintaining customer satisfaction. Course Schedule

VOC THR14 Stagecraft

0 Units (May be taken four times for credit) Lecture: 36 Lab: 54

Theory and practice of scenery construction and stage lighting. Practical work in scene design and construction and lighting layouts, with the opportunity to perform these tasks in actual theatre situations. By virtue of the wide range of productions staged by the department, students who repeat this course will increase their skills and proficiency. Course Schedule

VOC THR15 Play Rehearsal/Performance

0 Units (May be taken four times for credit) Lab: 54-162

Planning, preparation, and presentation of college-sponsored dramatic presentations. Emphasis on acting. Attendance at performances is required. Course Schedule

VOC THR18 Technical Theater Practicum 0 Units

(May be taken four times for credit) Lab: 54

Participation in the technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set-up, property construction, stage sound set-up, costume construction and makeup. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production.

Course Schedule

VOC THR19 Theatrical Costuming 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 54

The study of costume history, principles of costume design, fibers and textiles, basic costume construction and design rendering techniques. Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television and reenactments. Course Schedule

VOC THR60 Children's Theater 0 Units

(May be taken four times for credit) Lecture: 36 Lab: 72

A comprehensive study of threatre for the child audience in theory and practice. Specifically seeks to evaluate play production techniques and literature with an eye to the needs of an audience of children. Includes history of children's theatre, analysis of plays for children and actual experience in acting, directing and producing children's plays for public presentation.

Course Schedule

VOC TR10A Introduction to Tutoring 0 Units

Lecture: 18

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving and working with a diverse student population. Course Schedule

VOC TR10B Tutoring in English Language 0 Units

Lecture: 18

Tutoring in the English language with an emphasis on approaches to working with students on written drafts and addressing the needs of nonnative speakers. Course Schedule

VOC TR10C Tutoring/Supplemental Instruct 0 Units

Lecture: 18

Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

Course Schedule

VOC TR10D Tutoring in Mathematics 0 Units Lecture: 18

Tutoring in mathematics with an emphasis on strategies to promote active learning and dealing with specific obstacles in developmental algebra.

Course Schedule

VOC TR10R Tutoring in Reading 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 18

Application of strategic reading processes and approaches to reading tutoring. Prepares students to become tutors for reading. Course Schedule

VOC WL30 Metal Sculpture

0 Units (May be taken two times for credit) Lecture: 18 Lab: 54

Welding processes used in the metal sculpting industry to create threedimensional art forms. Covers design, pre-construction analysis, and cost estimates for projects. Includes use of equipment for oxyfuel welding, gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), shielded metal arc welding (SMAW), and flux-cored arc welding (FCAW). Includes demonstrations and exercises in welding as it relates to the art industry.

Course Schedule

VOC WL40 Introduction to Welding

0 Units (May be taken two times for credit) Lecture: 18 Lab: 54

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries. Course Schedule

VOC WL50 Oxyacetylene Welding

0 Units (May be taken two times for credit) Lecture: 18 Lab: 54

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices. Course Schedule

VOC WL51 Basic Electric Arc Welding

0 Units (May be taken two times for credit) Lecture: 18 Lab: 54

Electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (AWS) procedure for certification. Course Schedule

VOC WL53A Welding Metallurgy

0 Units

(May be taken two times for credit) Lecture: 54

Designed for students seeking a career in welding and welding inspection. Covers structure of matter, chemical, physical and mechanical properties of metals, principles of alloying, solid state diffusion, plastic deformation and heat treatment. Course Schedule

VOC WL60 Print Reading and Computations for Welders 0 Units

(May be taken two times for credit) Lecture: 54

Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions. Course Schedule

VOC WL70A Beginning Arc Welding 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 108

Develops manipulative skills and techniques for Shielded Metal Arc (SMAW) and Flux Cored Arc (FCAW) welding processes in the flat and horizontal positions using AC and DC welding currents on carbon steel. Course Schedule

VOC WL70B Intermediate Arc Welding 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lecture: 18 Lab: 108

Welding high alloy steel with both Shielded Metal Arc (SMAW) and Flux Core Arc (FCAW) welding processes in the vertical and overhead positions with an introduction to Gas Metal Arc (GMAW) and gas Tungsten (GTAW) welding. Course Schedule

VOC WL70C Certification for Welders 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 108

Building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding society's (AWS) D1.1 and D1.3. Course Schedule

VOC WL80 Construction Fabrication and Welding 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 108

Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards and develop fabrication skills to supplement and augment welding skills. Includes project models such as ornamental iron gates and fences and material storage components. Course Schedule

VOC WL81 Pipe and Tube Weldinhg 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 108

Welding in all positions as applied to the pipe industry. Welding processes include shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW) using a variety of materials and configurations on subcritical and critical piping and tubing. Course Schedule

VOC WL90A Gas Tungsten Arc Welding

0 Units (May be taken two times for credit) Lecture: 18 Lab: 108

Advanced Gas Tungsten Arc Welding (GTAW) or tungsten inert gas (TIG) of steel, aluminum, corrosion resisting steel (CRES), and exotic metals. All position welds with many surfaces and transitions. Course Schedule

VOC WL90B Semi Automatic Arc Welding Process 0 Units

(May be taken two times for credit) Lecture: 18 Lab: 108

Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thicknesses will be covered. Course Schedule

VOC WL91 Automotive Weldingm, Cutting and Modification 0 Units

(May be taken two times for credit) Lecture: 18

Welding and cutting metals used in the automotive industry. Gas Metal Arc (GMAW/MIG), Gas Tungsten Arc (GTAW/TIG), Plasma Arc Butting (PAC) and Oxy-fuel Cutting (OFC) welding will be covered. Course Schedule

VOC WL91L Automotive Welding, Cutting and Modification Lab 0 Units

(May be taken two times for credit) (May be taken for Pass/No Pass only) Lab: 108

Practical lab applications for sheet metal forming, metal inert gas (MIG), tungsten inert gas (TIG), resistance spot (RSW), Oxy-fuel welding, Plasma arc cutting (PAC) and Oxy-fuel cutting. Includes design, fabrication and assembly of automotive suspension and chassis components. Course Schedule 424 Vocational (VOC)

COLLEGE POLICIES AND NOTICES

For detailed information regarding Mt. San Antonio College Board of Trustees Policies (BP) and Administrative Procedures (AP), go to Board Policies & Administrative Procedures (http://www.mtsac.edu/ governance/trustees/apbp).

Accommodations and Academic Adjustments for Students with Disabilities

Under Federal and State laws, the College is required to make modifications to academic requirements and practices as necessary in order to ensure that they do not discriminate against a qualified student with a disability. The College is also required to have a policy and procedure for responding to students with verified disabilities who request academic adjustments. Students with disabilities have the right to receive reasonable academic adjustments in order to create an educational environment where they have equal access to instruction without fundamentally altering any course, educational program or degree. Board Policy (BP 5140) and Administrative Procedure (AP 5140) for Students with Disabilities may be found at Board Policies & Administrative Procedures (http://www.mtsac.edu/governance/trustees/ apbp) and in Disabled Student Programs & Services, (909) 274-4290.

Alcohol and Other Drugs

The possession or consumption of alcoholic beverages or illegal drugs prior to, or during any College-sponsored activity, on or off-campus, by any person attending, regardless of age, is forbidden by State law.

The federal Drug-Free Schools and Communities Act Amendments of 1989, P. L. 101-226 has mandated that as of October 1, 1990, there will be no drug usage by students, staff, or faculty on college campuses anywhere in the United States. Please see the current Schedule of Classes for the College's Alcohol and Other Drugs Policy (BP 3550, AP 3550).

Animals on Campus

Board Policy does not allow for any animals on campus except as provided for by the California Penal Code, Section 365.5 (specially trained guide, signal, or service dogs and service animals, **and/or therapy/ comfort animals**, as described within the requirements of AP 3440 "Service Animals"). Leaving a pet in a parked vehicle, no matter what provisions are made for its safety, may constitute unnecessary suffering or cruelty which is a violation of California Penal Code 597. (BP 3940)

Campus Disturbances

In accordance with California Penal Code (P.C. Section 626), the willful disturbance of classes, College activities, or procedures is a misdemeanor.

Campus Hours

The College offers instruction between the hours of 6:30 a.m. and 10:00 p.m., Monday through Sunday. Office hours vary depending on the services provided. Visit the website or call for specific office hours.

Children on Campus

While on the campus of Mt. San Antonio College, children under 12 years of age who are not approved for enrollment must be directly supervised at all times by a responsible adult. Such children shall not be left unattended in College buildings, outdoor areas, or in private automobiles (BP 3930).

Classroom Visitors and Other Attendees

Classroom activities are intended to benefit those students officially registered for the class. Others are permitted to attend a regularly scheduled class meeting only in specific situations. The professor assigned to teach the class may grant permission to visit the class. Disabled Student Programs and Services (DSP&S) may authorize a person to be a Personal Care Attendant (PCA) when the need for such accommodation is authorized by DSP&S prior to beginning service as a PCA (BP 4700, AP 4700).

Dress Regulation

Students are expected to dress in accordance with commonly accepted standards of appropriateness. It is mandatory that shoes be worn as general campus attire.

Eye Protection

Pursuant to the Education Code, the following regulation regarding eye protective devices shall be observed: Students, teachers, and visitors shall wear approved eye protective devices in all classes, shops, and laboratories when they are engaging in or observing the use of hazardous materials likely to cause injury to the eyes. Such eye protective devices shall meet the requirements of the American National Standards Institute Safety Code.

Non-Discrimination Policy

Mt. San Antonio College is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. The College provides an educational and employment environment in which no person shall be unlawfully denied full and equal access to, the benefits of, or be unlawfully subjected to discrimination on the basis of ethnic group identification, national origin, religion, age, sex or gender, sexual orientation, race, color, ancestry, medical condition, marital status, veteran status, or physical or mental disability (including HIV and AIDS), or on the basis of these perceived characteristics or based on association with a person or group with one or more of these actual or perceived characteristics, in any program or activity that is administered by the College. The lack of English language skills will not be a barrier to admission.

Students who believe they have been discriminated against may begin the process with **the Director of EEO Programs**, Human Resources Office, Building 4, Room 1460, (909) 274-4225. Harassment and discrimination investigation procedures are described in Administrative Procedure 3435. Formal complaint forms can be found at: http://extranet.cccco.edu/ Divisions/Legal/Discrimination.aspx. All complaints of unlawful discrimination or sexual harassment by students of the College will be fully investigated by Human Resources. College employees have similar rights which can be found in the College's Board Policy and Administrative Procedures. (BP 3410, 3430, AP 3410, 3430, 3435)

Reserve Officer Training Corps (ROTC)

Students interested in a military career can join an approved Reserve Officer Training Corps (ROTC) program offered through local universities. These programs are open to community college students pursuing an undergraduate degree, prior to transfer. Air Force ROTC programs are offered through Cal State San Bernardino, Loyola Marymount University, University of Southern California (USC) and UCLA; Army ROTC programs are offered at Claremont McKenna College, USC, UCLA and Cal State Fullerton; and Navy ROTC programs are offered through USC and UCLA. Competitive scholarships are available to qualified applicants as well as allowances for books and other costs. Students are advised to contact the ROTC program at the participating university.

Sexual Harassment & Sexual Violence

Sexual violence, including sexual assault, harassment, rape and stalking, are crimes that are not tolerated on this campus. Mt. San Antonio College has adopted Board policies and procedures to address sexual crimes, sanctions for offenders, and to outline access to treatment and general information for victims (BP 3430, 3500, 3540 and AP 3430, 3500, 3540). All applicable punishment, including criminal charges and disciplinary action, shall be applied whether the violator is an employee, student or member of the general public.

Services available to help assure student safety include:

- Public Safety Escorts are available during evening hours to escort students safely to their car. Escorts are stationed throughout campus or are provided upon request. Please call (909) 274-4233.
- Blue emergency telephone towers located throughout the campus and parking lots access the Police and Campus Safety Department immediately for assistance.
- Call 911 for any emergency. Be prepared to identify your exact location. The Police and Campus Safety Department can be reached at (909) 274-4555.
- Human Resources at (909) 274-5870 provides unlawful discrimination complaint procedures.
- Student Life Office at (909) 274-4525 provides assistance with referrals and resolutions.
- Student Health Services at (909) 274-4400 provides personal counseling and medical attention.

Smoking on Campus

Student, employee, and visitor health is a primary concern of Mt. San Antonio College. Smoking and the use of e-cigarettes will be prohibited on Mt. San Antonio Community College District property except in designated smoking areas. Designated smoking areas can be found on campus maps and the College website. Violations of this policy will be subject to a citation and a fine, as allowed per Government Code 7597.1. Appeals may be submitted in writing to the Police and Campus Safety Department within twenty-one (21) calendar days of issuance of the citation. (BP 3565, AP 3565)

Student Complaints/Grievance Process

Students are protected against capricious, arbitrary, unreasonable, unlawful, false, malicious or professionally inappropriate evaluations or behavior by a faculty member. Student complaints may be classified as grievances and fall into two categories: Academic, and Non-Academic. Academic grievances involve grades. To grieve a grade, a student must prove that the professor issued a grade by mistake, fraud, bad faith, or incompetence (Education Code 76224). Non-Academic grievances include: any act or threat of intimidation, harassment, or physical aggression, arbitrary action, violation of student rights, or imposition of sanctions without proper regard to College policy as specified in the Education Code, Board Policy, and/or Administrative Procedures, violation of Title IX Education Amendments of 1972, or violation of Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act (ADA) with reference to the rights of disabled students.

Students can obtain Grievance Procedures and forms on-line at Complaints and Grievances (http://www.mtsac.edu/studentlife/studentgrievances.html).

Students are encouraged to follow the Mt. San Antonio College Complaint and Grievance process before attempting to file a complaint with the State. Issues that are not resolved at the campus level may be presented:

- To the Accrediting Commission for Community and Junior Colleges (ACCJC) at http://www.accjc.org/complaint-process if your complaint is associated with the institution's compliance with academic program quality and accrediting standards. ACCJC is the agency that accredits the academic programs of the California Community Colleges.
- To the CCC Chancellor's Office if your complaint does not concern CCC's compliance with academic program quality and accrediting standards. http://californiacommunitycolleges.cccco.edu/ complaintsform.aspx

Grievances must be filed no later than 30 school days (Monday - Friday when classes are in session) after the beginning of the primary term following the alleged violation, or 30 school days from the time that the student learns of the basis for the grievance. To begin the formal grievance process, students may obtain Grievance Procedures and forms from the Student Life Office, Building 9C. It is recommended that students meet with the Student Life Director regarding the grievance prior to starting the process since timelines are established for every step of the process and must be met precisely.

The process for filing and pursuing a grievance includes two levels: in Level I (informal level) the student picks up the grievance forms and official procedures from Student Life and attempts to resolve the problem by meeting first with the faculty member (or staff member/administrator for non-academic grievances) and then the faculty member's department chair or immediate supervisor. If the complaint is not resolved at that level, the student will meet with the division dean of the faculty defendant in an effort to resolve the problem. In the event that the problem cannot be resolved within 10 school days, the student may proceed to Level II (formal grievance) in which the student submits all signed forms and documents to the Student Life Office within the established deadlines.

A Grievance Review Committee chaired by the Dean of Student Services will review the grievance documents. This Committee may forward the grievance for a formal hearing process to seek clarification from the parties involved. If the student or faculty/staff member chooses to appeal the decision of the Committee, the appeal is submitted to the College President. The final appeal process resides with the Board of Trustees; their decision concludes the grievance process (AP 5530).

Traffic and Parking

Users of Mt. San Antonio College campus roads and parking areas must observe and obey all traffic laws of the State of California and the College traffic and parking rules and regulations adopted pursuant to Section 21113 of the California Vehicle Code and the Mt. San Antonio College Board of Trustees (BP 6750, AP 6750).

All vehicles parked in designated student lots **must** bear a valid parking permit. The Student Parking Permit is valid in designated student lots except pay lots or in spaces controlled by parking meters or reserved signage. Student Parking Permits are not valid in designated employee parking lots. Free 30-minute parking is available north of the Bookstore (Building 9A), west of the Administration Building (Building 4), and south of the Performing Arts Center. Permit parking regulations are strictly enforced 24 hours a day, 7 days a week.

| Violation | 2015 | 2016 | 2017 |
|--|------|------|------|
| Murder - Non- Negligent Manslaughter | 0 | 0 | 0 |

| Murder - Negligent Manslaughter | 0 | 0 | 0 |
|--|---|----|----|
| Sex Offenses - Forcible | 1 | 2 | 0 |
| Sex Offenses - Non-Forcible | 0 | 0 | 0 |
| Robbery | 1 | 0 | 0 |
| Aggravated Assault | 1 | 3 | 1 |
| Burglary | 4 | 14 | 12 |
| Motor Vehicle Theft (GTA) | 8 | 12 | 5 |
| Arson | 0 | 1 | 0 |
| Liquor Law Violations | 1 | 4 | 0 |
| Drug Law Violations | 8 | 4 | 13 |
| Illegal Weapons Violation | 1 | 4 | 0 |
| Hate Crimes - Race | 1 | 0 | 0 |
| Hate Crimes - Gender | 0 | 0 | 0 |
| Hate Crimes - Religion | 0 | 0 | 0 |
| Hate Crimes - Sexual Orientation | 0 | 0 | 0 |
| Hate Crimes - Ethnicity/ National Origin | 0 | 0 | 0 |
| Hate Crimes - Disability | 0 | 0 | 0 |
| Dating Violence | 0 | 0 | 0 |
| Domestic Violence | 0 | 0 | 2 |
| Rape | 0 | 0 | 1 |
| Stalking | 0 | 1 | 0 |

Student Academic Honesty

All members of the academic community have a responsibility to ensure that scholastic honesty is maintained. Faculty have the responsibility of planning and supervising all academic work in order to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered.

Honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reason, but for which there is no acceptable excuse.

Cheating and Plagiarism (Academic Dishonesty)

The term "Cheating" includes but is not limited to:

- Plagiarism
- · Receiving or knowingly supplying unauthorized information
- · Using unauthorized material or sources

- Changing an answer after work has been graded and presenting it as improperly graded
- · Illegally accessing confidential information through a computer
- Taking an examination for another student or having another person take an examination for you
- · Presenting another person's work as your own
- · Forging or altering registration or grade documents
- Submitting collectively developed work as your own, unless specifically allowed by the professor

A professor who determines that a student has cheated may give the student a failing grade for the assignment and should report the alleged academic dishonesty to the Student Life Office, which will maintain a record of the report and appropriate action under the provisions of the Administrative Procedures on Student Discipline (AP 5520).

Students are advised that allegations of dishonesty are serious, and can lead to disciplinary sanctions including suspension and expulsion. (BP 4290, AP 4290)

Plagiarism

"Plagiarism is a direct violation of intellectual and academic honesty. Although it exists in many forms, all plagiarism refers to the same act: representing somebody else's words or ideas as one's own. The most extreme forms of plagiarism are the use of material authored by another person or obtained from a commercial source, or the use of passages copied word for word without acknowledgment. Paraphrasing an author's idea or quoting even limited portions of his or her text without proper citation is also an act of plagiarism. Even putting someone else's ideas into one's own words without acknowledgment may be plagiarism. In none of its forms can plagiarism be tolerated in an academic community. It may constitute grounds for a failing grade, probation, suspension, or expulsion."

"One distinctive mark of an educated person is the ability to use language correctly and effectively to express ideas. Faculty assign written work for the purpose of helping students achieve that mark. Each instructor will outline specific criteria, but all expect students to present work that represents the student's understanding of the subject in the student's own words. It is seldom expected that student papers will be based entirely or even primarily on original ideas or original research."

"Therefore, to incorporate the concepts of others may be appropriate with proper acknowledgment of sources, and to quote others directly by means of quotation marks and acknowledgments is proper. However, if a paper consists entirely of quotations and citations, the paper should be rewritten to show the student's own understanding and expressive ability. The purpose of the written assignment (i.e., development of communication and analytic skills) should be kept in mind as each paper is prepared. It should not be evaded through plagiarism."¹

¹ Adopted, with permission of California State University, Los Angeles, from their policy printed in the 1987-88 General Catalog.

Notices

Equal Opportunity Statement

The Board of Trustees of Mt. San Antonio College has a commitment to establishing and maintaining a policy of equal educational and employment opportunities and prohibiting discrimination based on sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV & AIDS), sexual orientation, or Vietnam Era Veteran Status. This commitment applies to educational programs, activities, service, and employment practices (BP 3410, AP 3410).

Open Enrollment

All classes are open to all students who meet the course prerequisites and enrollment requirements, unless specifically exempted by statute. The College provides open access to all program offerings, opportunities, and support services without regard to sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV and AIDS), sexual orientation, or Vietnam Era Veteran Status (BP 5052, AP 5052).

Department of Police and Campus Safety

In compliance with the Clery Act, the College publishes an annual security report which contains information regarding campus crime statistics. This information may also be found on the Mt. San Antonio (http:// www.mtsac.edu) website by clicking on Public Safety. Copies of the annual report can be obtained from the Police and Campus Safety Department in Building 23. A Public Safety crime log is published bimonthly in the student newspaper and Emergency Procedures are posted throughout the campus. (BP 3515, AP 3515)

Emergency Procedures

Students and staff should report serious crimes and emergencies, i.e., fire/medical, occurring on campus to the Public Safety Department or call 911. When using an on-campus extension, call 9-911. Incidents may be reported to Public Safety by calling (909) 274-4555, 24 hours a day, seven days a week. Public Safety may also be contacted during and after business hours from public telephone locations on campus by dialing *91. In the event of an emergency, students and staff are requested to make a prompt and accurate report to the Public Safety Department. The Public Safety Department is located at the southeast portion of the campus off Bonita Drive in Building 23. (AP 3503)

Enforcement

The Mt. San Antonio College Public Safety Department has the authority to enforce the Student Discipline Code of Conduct and the State of California Penal Code under Education Code Section 72330. The Mt. San Antonio College Board of Trustees has established the Public Safety Department as a community college police department under Education Code Section 72330(a), which authorizes the governing board of a community college district to establish a community college police department under the supervision of a community college chief of police. Although a designated police department, the Mt. San Antonio College Public Safety Department has a memorandum of understanding mandated by the "Crime Awareness and Campus Safety Act of 1990," that the Los Angeles County Sheriff's Department has jurisdiction to investigate all crimes occurring on Mt. San Antonio College Campus. (BP 3520, AP 3520)

Crime Prevention

The Public Safety Department's primary responsibility is the safety and security of all members of the College community. Every effort is made to inform students and staff of criminal activity or any other concern that may be an immediate threat to the safety and security of those on campus. Information and workshops on crime prevention are made available to College students and staff. It is the responsibility of every member of the campus community to act in ways that promote the safety of self, others, and the protection of District property. (AP 3500)

• You can now **Text-a-Tip** when you witness crimes or any suspicious behavior on campus. Text it to: (909) 610-9139

Campus Emergency Phone System

Mt. San Antonio College has installed a campus wide emergency phone system. This system is divided into two primary segments. The inner campus system consists of emergency phones that are placed on the outside of selected campus buildings and are identified by the familiar blue light affixed to the top of the phone housing.

The second segment of emergency phones consists of stand-alone emergency phone towers, located in open campus spaces, primarily in campus parking lots. These phone towers are identified by a blue light affixed to the top of the tower. Use of any of these emergency phones will connect the user to Campus Security during normal business hours, located in Building 23. During hours when the campus is closed, the Emergency phones will connect the user directly to a cell phone carried by Campus Security Officers who are on duty 24 hours a day, 7 days a week (BP 3505, AP 3500, 3503).

Notice of Students' Rights and Privacy Act

Students at Mt. San Antonio College are notified annually of their rights under FERPA (Family Educational Rights and Privacy Act) within this section of the Catalog. More detailed information on student rights is available from http://www2.ed.gov/policy/gen/guid/fpco/ferpa/ index.html Following is a summary of the Mt. San Antonio College policy related to the Family Educational Rights and Privacy Act of 1974 (FERPA), P.L. 93-380 (also referred to as the Buckley Amendment) and [Chapter 1297, Statutes of 1976, State of California.]:

- type of information and material contained within the student's educational record;
- 2. the official responsible for the maintenance of each type of record;
- the procedure for student review and inspection of the educational record;
- 4. the procedure for challenging the contents of the educational record;
- 5. the charges to the student for reproducing copies of the record if requested;
- 6. the categories of information which the College has designated as Directory Information and to whom this information will be released unless the student objects and
- 7. the rights of a student to file a complaint with the

Family Policy Compliance Office U.S. Department of Education 400 Maryland Ave., S.W. Washington, D.C., 20202-5920

concerning alleged failure of the College to comply with the provisions of FERPA.

Access to Educational Records

All former and present students have the right to review and inspect their educational records in the Office of Admissions and Records provided they make a written request fifteen (15) days in advance. Such a review will be under the direct supervision of a classified or certificated employee in the Admissions and Records Office. Expressly exempted from the right of review and inspection are the following materials:

- 1. Financial records of the parents of the student(s).
- 2. Confidential letters and statements of recommendation maintained by the College on or before January 1, 1975, provided that such letters or statements are not used for purposes other than those for which they were specifically intended.

- 3. Records of instructional, supervisory, counseling, and administrative personnel which are in the sole possession of such personnel and are not accessible or revealed to any other person except a substitute.
- Records of employees of Mt. San Antonio College, made and maintained in the normal course of business which relate exclusively to such person in that person's capacity as an employee, are not available for use for any other purpose.
- 5. Records of students made and maintained by the Student Health Services, the College nurse, the College physician, and the College therapist, which are used in the treatment of students and are not available to anyone other than persons providing such treatment. However, such a record may be personally reviewed by a physician or other appropriate professional of the student's choice.

Release of Educational Records Information

- 1. Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- The College may release copies of or otherwise divulge material in the student's educational records only to the official agencies, groups, officials, or individuals specifically mentioned below:
 - a. College staff members; provided that such employees have a legitimate educational interest to inspect such a record.
 - b. Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
 - c. Accrediting organizations in order to carry out their accrediting functions.
 - d. Organizations conducting studies on behalf of the institution.
 - e. Officials of other schools or school systems in which the student seeks or intends to enroll subject to the rights of students.
 - f. Agencies or organizations in connection with a student's application for financial aid.
 - g. Organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, and administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is compiled.
 - h. Appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.
 - i. Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.
- 3. Directory Information
 - a. "Directory Information" means a student's name, community of residence, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student.
 - b. Any student desiring to withhold "Directory Information" may file a written request with the Dean, Enrollment Management, within

fifteen (15) days of the opening day of each semester or session that the student does not want such information released.

c. The College reserves the right to limit or deny the release of specific categories of directory information based upon a determination of the best interests of the student(s).

Students may file a complaint with the United States Department of Education regarding alleged institutional FERPA violations.

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, D.C. 20202-5920

The 1996 Solomon Amendment

The 1996 Solomon Amendment is federal law that compels institutions that receive federal funding to provide (upon request) directory information, plus address, phone number, date and place of birth, level of education, degrees received, prior military experience, and/or the most recent previous educational institutions enrolled in by the student for the purposes of federal military recruitment.

Transfer of Information to Third Parties

Educational records or personal information transferred to other institutions or agencies will not be transferred to a third party without the written consent of the student (AP 5040).

Student Right-to-Know Transfer Rates

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Mt. San Antonio Community College District and Mt. San Antonio College to make available its completion and transfer rates to all current and prospective students. For this calculation, a fall cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students are tracked over a threeyear period. These rates do not represent the success rates of the entire student population at Mt. San Antonio College, nor do they account for student outcomes occurring after this three-year tracking period.

A Completer is a student who attained a certificate or degree or became "transfer-prepared" during a three-year period. Students who are "transfer-prepared" have completed 60 transferable units with a GPA of 2.0 or better. Transfer students are those who transferred to another postsecondary institution (UC, CSU or another California Community College) prior to attaining a degree, certificate, or becoming "transfer-prepared" during a five-semester period. For up-to-date rates please see http://srtk.cccco.edu/index.asp

Standards of Conduct

(BP 5500) Adopted 6/23/04

Copies of the Standard of Conduct Policy can be obtained at Board Policies & Administrative Procedures (http://www.mtsac.edu/ governance/trustees/apbp) or in Building 9C.

The College President/CEO shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and State law and regulations.

The procedures shall clearly define the conduct that is subject to discipline, and shall identify potential disciplinary actions, including but not limited to the removal, suspension, or expulsion of a student.

The Board shall consider any recommendation from the College President/CEO for expulsion. The Board shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board on the expulsion shall be taken at a public meeting.

The procedures shall be made widely available to students through the College catalog and other means.

The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student:

- 1. Causing, attempting to cause, or threatening to cause physical injury to another person.
- Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a College employee, which is concurred with by the College President/CEO.
- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- 4. Committing or attempting to commit robbery or extortion.
- 5. Causing or attempting to cause damage to College property or to private property on campus.
- Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- 8. Committing sexual harassment as defined by law or by College policies and procedures.
- 9. Engaging in harassing or discriminatory behavior based on disability, gender, gender identify, gender expression, marital status, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law.
- 10. Engaging in intimidating conduct or bullying against another student through words or actions.
- 11. Willful misconduct that results in injury or death to a student or to College personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the College or on campus.
- 12. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 13. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 14. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 15. Unauthorized entry upon or use of College facilities.
- 16. Lewd, indecent or obscene conduct on College-owned or controlled property, or at College-sponsored or supervised functions.
- Engaging in expression which is obscene, libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation

of lawful College administrative procedures, or the substantial disruption of the orderly operation of the College.

- 18. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- 19. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any College policy or Administrative Procedure.
- 20. Harassment of students and/or College employees that creates an intimidating, hostile, or offensive environment.
- 21. Violation of College rules and regulations including those concerning affiliate clubs and organizations, the use of College facilities, the posting and distribution of written materials, and College safety procedures.

INSTRUCTION AND STUDENT SERVICES DIVISIONS

Arts Division

(909) 274-5200 Dr. Sue Long, Dean Mark Lowentrout, Associate Dean

The Arts Division is comprised of four educational departments offering numerous degrees and certificates that provide students with the knowledge and training necessary for transferring to a university or fulfilling career opportunities in the arts. The division houses an acclaimed art gallery and supports the new state-of-the-art Design Technology Center. The division offers 6 Associate in Science degrees, 2 Associate in Arts degrees, 2 Associate in Arts for Transfer degrees, and 17 Certificates of Achievement.

The Arts Division's educational departments and their program areas include:

- Fine Arts (Drawing, Figure, Painting, Sculpture, Ceramics, Printmaking, Gallery Design and Operations)
- Commercial & Entertainment Arts (Animation & Gaming, Graphic Design & Illustration, Photography, Radio & Television)
- Music (Theory, Choral, Instrumental)
- Theater (Acting, Design & Technical, Playwriting)

Business Division

(909) 274-4600 Jennifer Galbraith, Dean Dr. Fawaz Al-Malood, Associate Dean

The Business Division's educational programs and services are designed to respond to the changing trends, needs, and job requirements of the community, state, and national economy while ensuring a high quality of education. The division offers 20 Associate in Science degrees, 2 Associate in Arts degrees, one Associate in Science for Transfer degree and 60 Certificates. The Business Division also includes the services of the new Child Development Center and the Center of Excellence.

The Business Division's educational departments and their program areas include:

- Accounting and Management (Accounting, Business Management, Business Office Communications, and Marketing & Sales)
- Business Administration (Paralegal Studies, Real Estate, Economics, and Business Law)
- Child Development and Education
- Computer Information Systems (Computer Basics, Database Management, CIS Management, Networking, Programming, Computer & Network Security, and Web Development)
- Consumer Sciences and Design Technologies (Family & Consumer Sciences, Fashion Merchandising & Design, Hospitality & Restaurant Management and Culinary Arts, Interior Design, and Nutrition & Foods)

Humanities and Social Sciences

Humanities and Social Sciences Division

(909) 274-4570

James Jenkins, Dean Dr. Jeanne Marie Velickovic, Associate Dean The Humanities and Social Sciences Division provides students with a broad selection of general education courses in language arts, humanities, and social sciences. It offers 2 Associate in Science degrees, 4 Associate in Arts degrees, 8 Associate in Arts for Transfer degrees and one Certificate of Achievement. The Division publishes the student newspaper and magazine and houses the Honors program, the Pride Center, Teacher Preparation Institute, Writing Center, and Speech & Sign Success Center.

The Humanities and Social Sciences Division's educational departments and their program areas include:

- American Language
- · Communication (Speech and Forensics)
- English, Literature and Journalism (English, Journalism, Literature and Latin)
- World Languages (Arabic, Chinese, French, German, Italian, Japanese and Spanish)
- History (History)
- · Art History (Art history and Humanities)
- · Geography and Political Science
- Psychology
- Sign Language (American Sign Language and Interpreting)
- Sociology and Philosophy

Kinesiology, Athletics and Dance Division

(909) 274-4630 Joe Jennum, Dean / Athletics Director Debbie Cavion, Associate Dean / Associate Athletics Director

The Kinesiology Athletics and Dance Division has been a leader among community colleges for over 60 years. Our division provides a wide range of opportunities within the disciplines of kinesiology, wellness, fitness, coaching, athletic training and dance, as well as fielding 20 competitive teams. The division offers one Associate in Science degree, one Associate in Arts degree and 7 Certificates. The Division also houses the WIN student athlete academic resource center, Exercise Science/ Wellness Center and Athletics and Dance venues throughout the campus.

The Kinesiology Athletics and Dance Division's educational departments and their program areas include:

- Dance (Theory and Activity)
- Kinesiology (Adaptive, Aquatics, Athletics, Fitness, Individual Activities, Team Sports, and Theory)

Library and Learning Resources Division

(909) 274-5659 Meghan M. Chen, Dean Bailey Smith, Director, Learning Assistance Center

The Library and Learning Resources Division offers services in the Learning Assistance Center, the Library, Tutorial Services and the Distance Learning Program which provide academic support for all students at the College. Faculty teaching distance learning courses are also supported by the division's Online Learning Support Center.

Housed in the Learning Technology Center, the Library and Learning Resources Division's educational departments and their program areas include:

- Learning Assistance (Basic Skills Math, Basic Skills Writing, Learning Communities, Reading, Study Skills and Tutoring)
- Library

Natural Sciences Division

(909) 274-4425 Matthew Judd, Dean Karelyn Hoover, Associate Dean

The Natural Sciences Division provides diverse educational opportunities and programs within its six departments. Academic and vocational programs are available and provide students with state of the art equipment in modern lab settings. The Division offers 11 Associate in Science degrees, 2 Associate in Arts degrees, one Associate in Science for Transfer degree and 13 Certificates of Achievement. Natural Sciences houses a variety of facilities for learning and community outreach including the Math Activities Resource Center (MARC) and Transfer Math Activities Resource Center (T-MARC), the Jim and Eleanor Randall Planetarium, an Astronomy Observatory and a 25 acre Wildlife Sanctuary, the Science, Technology, Engineering, and Mathematics (STEM) Center, the Redinger Exploration Center and Meek Natural History Exhibit, and the Agriculture Literacy Trail.

The Natural Sciences Division's educational departments and their program areas include:

- Agriculture (Horticulture, Animal Science and Registered Veterinary Technician)
- Biology (Anatomy & Physiology, Anthropology, Biological Sciences, Botany, Histotechnician Program and Microbiology)
- · Chemistry (Inorganic Chemistry, Organic Chemistry and Biochemistry)
- Earth Sciences (Astronomy, Geology, Meteorology and Oceanography)
- Mathematics & Computer Science
- Physics and Engineering (Engineering, Physical Sciences, Physics and Surveying)

School of Continuing Education

(909) 274-4220 Dr. Madelyn Arballo, Dean Dr. Liza Becker, Associate Dean Dr. Tami Pearson, Associate Dean

The School of Continuing Education provides a variety of noncredit courses and certificates as well as comprehensive offerings of fee-based, not-for-credit community services classes and contract training. Students can earn noncredit Certificates of Competency and Certificates of Completion in a variety of Career Technical/Vocational areas. Programs within the Division provide orientation, assessment, educational planning, and embedded counseling services.

The School of Continuing Education programs include:

- Adult Basic Education
- Adult High School Diploma (Secondary Education)
- GED/High School Equivalency
- High School Credit Recovery
- Citizenship
- · Education for Older Adults
- · Adults with Disabilities
- English as a Second Language (ESL)
- VESL Career Paths (Vocational ESL)
- Short-Term Vocational (Business, Health Careers, Technology, and other fields)

Technology and Health Division

(909) 274-4750 Jemma Blake-Judd, Dean Sarah Plesetz, Associate Dean

The Technology and Health Division provides 24 Associate in Science degrees, one Associate in Science for Transfer degree, and 31 certificates in both occupational and vocational programs in the areas of technology, public services, and health care. Programs are driven by industry needs and many are governed by state and national accreditation agencies. The Technology and Health Division includes the services of the Health Careers Resource Center and the Mt. SAC Fire Academy.

The Technology and Health Division's educational departments and their program areas include:

- · Aeronautics (Air Traffic Control, Commercial Flight)
- Air Conditioning & Welding Technologies (Air Conditioning & Refrigeration, Building Automation Systems, Welding)
- · Aircraft Maintenance Technology (Aircraft Maintenance Technician)
- · Architecture, Industrial Design Engineering & Manufacturing
- Electronics & Computer Technology (Computer & Networking Technology, Electronics, Electronics Systems Technology)
- Emergency Medical Services (Paramedic)
- Mental Health (Alcohol and Drug Counseling, Psychiatric Technician)
 Nursing
- Nursing
- Public Safety (Administration of Justice, Fire Technology)
- Radiologic Technology
- Respiratory Therapy

Student Services

(909) 274-6909

Mt. San Antonio College offers a number of support programs for students in all different types of situations. Whether you're a veteran, a foster youth, an international student or a DREAMer, we have a support program designed to help you as you work to achieve your educational goals.

 ACES: (http://www.mtsac.edu/aces) Helps students who are lowincome, the first in their family to attend college, or disabled earn an associate degree and transfer from Mt. SAC to a four-year university to earn their bachelor's degree.

- Arise: (http://www.mtsac.edu/arise) Mt. SAC's newest support program, designed to help Asian American and Pacific Islander students boost their academic performance.
- ASPIRE: (http://www.mtsac.edu/aspire) Provides educational support to increase the academic success, degree completion, and transfer rates of African-American and other students.
- Bridge: (http://www.mtsac.edu/bridge) Offers different learning communities to increase students' academic and personal success. Students participating in a learning community are enrolled in linked or clustered classes that are taught in a cooperative environment between instructors.
- CalWORKS: (http://www.mtsac.edu/calworks) Provides educational assistance to students who receive cash-aid through Temporary Assistance for Needy Families (TANF).
- CARE: (http://www.mtsac.edu/eops/care.html) Designed to help single parents who are CalWORKS recipients with children under the age of 14. This program is also known as Cooperative Agencies Resources for Education.
- Disabled Student Programs and Services: (http://www.mtsac.edu/ dsps) Works to provide full and equal access to any facility, class, program, service, or activity on the Mt. SAC campus.
- EOPS: (http://www.mtsac.edu/eops) Also known as Extended Opportunity Programs and Services, EOPS is a state-funded program that provides educational and financial support to eligible students who have historically experienced economic and educational disadvantages.
- High School Outreach: (http://www.mtsac.edu/hso) Helps local high school graduating seniors successfully transition into life at Mt. San Antonio College.
- International Students: (http://www.mtsac.edu/international) Visit this page to learn about the application process, support programs, and resources available for international students.
- Veterans Services: (http://www.mtsac.edu/veterans) The Veterans Services Department offers a number of programs and opportunities that provide economic and financial support for veterans and their family members.
- WIN (http://www.mtsac.edu/continuinged/noncredit/abe/win.html): The WIN program is a student-athlete tutorial program that offers a variety of academic services.

Enrollment Management

(909) 274-4415 Dr. George Bradshaw, Dean

At Mt. San Antonio College, we make our application and enrollment process as easy as possible for our students. Explore the Admissions, Registration, and Financial Aid section (http://www.mtsac.edu/ admissions-and-aid) of our website to get answers to any questions you have about applying, registering for classes, graduation procedures, or financial aid.

Counseling

(909) 274-4380 Thomas Mauch, Dean Dr. Francisco Dorame, Associate Dean

Not sure how to chart your path to your academic and career goals? Need help in creating your educational plan? Do you just need someone to talk to? The Mt. SAC Counseling Department is here to help!

We deliver essential academic and career counseling services to our diverse student population. If you are experiencing personal issues that are affecting your academic performance, we can listen and direct you to the appropriate resources as needed. Additionally, we teach courses in student development including: Career and Life Planning, Student Success Strategies, Single Parent Academy, and Peer Counselor Training. See Counseling courses. (http://www.mtsac.edu/counseling/ courses.html)

We also conduct new student orientations, probation workshops, and participate in community and high school outreach. We are involved in numerous programs that are designed to ensure your success: Bridge Program, Teacher Preparation, International Students, Student Athletes, and Career Institutes. We are here to help you succeed!

Disabled Students Programs and Services

(909) 274-4290 Ms. Grace Hanson, Dean

The mission of Mt. SAC's Disabled Student Programs & Services (DSP&S) is equal access. We expect that you will enjoy full and equal access to any facility, class, program, service or activity on our campus. Your primary mission in attending College should be to receive a good education. With that in mind, our goal is to assist you to pursue your education at Mt. San Antonio College. As an adult college student, you enjoy certain rights and privileges, such as the right to confidentiality. Along with those rights and privileges also come responsibilities. One such responsibility is to request assistance as soon as you need it. You also are responsible for maintaining satisfactory progress and DSP&S is here to assist you (http://www.mtsac.edu/dsps).

Our vision is to assist our students to be successful. Success means different things to different people. Success for some is completing a course. For others, it means completing a program, a degree or obtaining a job. What does it mean for you? We can help you figure it out. We are happy to report students find our services helpful. In a survey conducted in 2009, students overwhelmingly found that DSP&S counseling services contributed to their academic success!

FACULTY AND ACADEMIC ADMINISTRATORS

Mt. San Antonio College's professors and academic managers are some of the best in their fields. They graduate from top colleges and universities and have real world industry experience.

A

Albertson, Toni (2006) English, Literature & Journalism B.A., University of La Verne M.A., University of Nebraska

Alexander, Carolyn (1991) Fine Arts B.A., Scripps College M.F.A., Tyler School of Art, Temple University

Allende, Kristina (2001) English, Literature & Journalism A.A., Mt. San Antonio College B.A., M.A., California State University, Fullerton

Al-Malood, Fawaz (2003) Associate Dean, Business Diploma, Hotel Institute Montreux - Switzerland B.S., University of South Carolina DEd., University of South Africa

Alvarez, Hansel (2007) English, Literature & Journalism B.A., California State University, San Bernardino M.A., California State Polytechnic University, Pomona

Alvarez-Galvan, Maya (2000) English, Literature & Journalism B.A., M.A., California State University, Los Angeles M.A., California State Polytechnic University, Pomona Ph.D., University of Southern California

Anders, Tannia-Maria (2015) Earth Sciences & Astronomy Diploma (6 Year degree), University of Erlangen-Nuernberg, Germany Ph.D., University of Kiel, Germany

Anderson, Alison (2006) Biological Sciences B.S., California State University, Bakersfield M.S., California State Polytechnic University, San Luis Obispo

Anderson, Cynthia B. (1986)

Biological Sciences B.S., Arizona State University M.S., University of Illinois

Anderson, Daniel P. (2000)

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Computer Information Systems B.S., Indiana University M.S., California State University, Fullerton

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Archibald, Jeffrey D. (2000) Communication B.A., Cornell University M.S., Illinois State University

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Boehner-Staylor, Maya (2001) English, Literature & Journalism B.A., California State University, Los Angeles M.A., Northwest Missouri State University

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