

Baccalaureate Degree Program Application

1. A. BDP Application Instructions and Specifications

1. Has your district submitted evidence of approval to offer the proposed baccalaureate degree programs through the Accrediting Commission for Community and Junior Colleges (ACCJC)?

No

2. Is a system in place for the district to maintain separate records for students who are enrolled in courses classified in the upper division and lower division of the proposed baccalaureate degree program?

Yes

3. Will students the proposed baccalaureate degree program be reported as a community college student for enrollment in a lower division course and as a baccalaureate degree program student for enrollment in an upper division course?

Yes

2. B. Baccalaureate Degree Program Application

4. Program Goals and Objectives – Please submit documentation regarding unmet workforce needs specifically related to the subject area of the proposed baccalaureate degree program. Documentation may address transfer preparation. Refer to the California Community Colleges Chancellor's Office [Program and Course Approval Handbook, 7th Edition](#), pp. 93-95 for a discussion on Labor Market Information analysis and considerations.

[Mt. SAC Baccalaureate Degree Prompt 4 Response Jan 15 2022.pdf](#)

[MtSACHistotechSupport of need James DeKloe.pdf](#)

[Histology Jobs Requiring a BS Degree.pdf](#)

[MtSACHistotech Support of need Graham Velasco.pdf](#)

[MtSACHistotechSupport of need PNeder-Eckman.pdf](#)

5. Expertise, Resources, and Student Interest - Please submit documentation of the district's expertise, resources, and student interest to offer a quality baccalaureate degree in the proposed field of study.

[Mt. SAC Baccalaureate Degree Prompt 5 Response Jan 15 2022.pdf](#)

[Baccalaureate Degree Application MT SAC Jan 15 2022.pdf](#)

6. Similar Programs at Other Colleges in Service Area – Please submit a written statement supporting the necessity of a four-year degree for the proposed baccalaureate degree program in the local community or region of the district.

Mt. San Antonio College (Mt. SAC) offers the only Histotechnology Associate of Science Degree Program in the state. Merritt College, in Oakland, offers only a histotechnician certificate of achievement program. These are the only two programs among California's community colleges that have received accreditation by NAACLS. While the program at Mt. SAC is in high demand, graduates are significantly limited in their options for career advancement in the histotechnology profession. Only a handful of baccalaureate programs in histotechnology exist in the entire United States, none of which are located in California or even west of Texas. The four universities that offer a bachelor's degree in histotechnology are Barry University (Florida), University of Mississippi Medical Center, University of Texas MD Anderson Cancer Center, and West Virginia University. (See <https://www.naacls.org/Find-a-Program.aspx> for a searchable database of accredited histotechnology programs.)

A report by the Public Policy Institute of California (PPIC) projects that by 2030 38% of jobs in California will require at least a bachelor's degree, but only 32% of workers will have those degrees. The Histotechnology BS degree at Mt. San Antonio College will increase access to students with the smooth transition from an AS degree to a BS degree while also improving completion rates and time to degree, particularly with low-income, Latino, and African American students. (See <https://www.ppic.org/press-release/state-faces-shortfall-of-1-1-million-college-graduates-in-2030/>) Mt. SAC is a Hispanic Serving Institution (HSI) with 61.78% of the 2020-21 credit students identifying as Hispanic/Latino. A baccalaureate degree program at Mt. SAC would help to address the demand to fill the projected 25,200 job openings for clinical laboratory technologists/technicians throughout the state in the coming decade.

In order to meet the statewide demand, with the encouragement and support of the Mt. SAC Histotechnology Program Advisory Committee, the program director, Professor Jennifer MacDonald, has contacted local universities to inquire about a joint program that would allow students completing their training at Mt. SAC to obtain a baccalaureate degree in histotechnology, a degree needed for top-level positions in the field. At different points over the past 14 years, Professor MacDonald has approached California State Polytechnic University, Pomona, California State University (CSU), Dominguez Hills, University of California (UC), Irvine, and Loma Linda University. At this time, Mt. SAC does not have any knowledge in which a UC, CSU, or private university has an interest in adding a baccalaureate degree in histotechnology to their program offerings. Mt. SAC has attached eleven letters of support from various CSUs and UCs supporting a BS Degree in Histotechnology.

3. C. Baccalaureate Degree Program Application (Cont.)

7. Catalog Description – Please include program requirements, prerequisite skills or enrollment limitations, student learning outcomes, and information relevant to the proposed baccalaureate degree program's goal(s).

The Bachelor of Science in Histotechnology Program at Mt. SAC will prepare students for a career in medical diagnostics by training them to prepare and evaluate tissues on a macroscopic and microscopic level and by developing strong supervisory and leadership skills necessary for high level management positions in a laboratory setting. In addition to performing complex tissue specimen preparations in the laboratory, students will complete courses in biochemistry, microbiology, anatomy and physiology, advanced histotechnology, histology and cytology, pathophysiology and anatomic pathology, advanced microscopy, and medical ethics. Clinical rotations will provide opportunities to apply these skills, while courses in laboratory management, leadership, and professionalism will prepare them for supervisory and management positions. Completion of this program will prepare students for certification by the American Society of Clinical Pathologists (HTL Exam).

BS Degree in Histotechnology Student Learning Outcomes:

1. Students will demonstrate competence and skill in all aspects associated with and practiced in a contemporary histotechnology laboratory.
2. Students will be able to prioritize and perform laboratory testing.
3. Students will be able to troubleshoot instrumentation problems and resolve-staining inconsistencies.
4. Students will be able to organize, supervise, and manage laboratory personnel and effectively manage a histotechnology laboratory.
5. Students will be able to implement quality control standards.
6. Students will be able to correlate clinical data with laboratory findings.
7. Students will be able to maintain accurate and complete records and communicate effectively orally and in writing with members of the health care team.
8. Students will be able to apply safety and government regulations and standards as applied to the histotechnology laboratory.
9. Students will demonstrate professional conduct and engage in continuing education and professional development.

8. Program Requirements – Please include a description of the proposed baccalaureate degree program's course requirements, faculty, facilities, and sequencing that reflects program goals. The GE pattern and the calculations used to reach the degree total must be shown following the program requirements table.

Please Note: The response to this prompt is better organized and easier to read within our application that is attached to Prompt #5. It may be easier to review the information in our application than through this narrative text box. Thank you!

The following table shows the curriculum plan for the proposed Bachelor of Science Degree in Histotechnology. The plan includes course requirements and sequencing.

First Year

Term Course # Course Name Units

Summer MATH 71 Algebra *

Fall MATH 110 Elementary Statistics 3

Fall CHEM 10 General Chemistry for Allied Health Majors 5

Fall HT 1 Intro to Histotechnology (8 wks) 1

Fall HT 2 Scientific Basics for Histotechnicians 3

Fall Lower Division GE (1) 3

Winter Lower Division GE (2) 3

Winter Lower Division GE (3) 3

Spring BIOL 4 Biology for Majors 4

Spring CHEM 20 Intro to Organic and Biochem 5

Spring HT 12 Beginning Histotechniques 5

Spring Lower Division GE (4) 3

Summer ANAT 35 Anatomy 5

*Completion of MATH 71 or satisfactory score on the mathematics placement exam required for enrollment in the BS degree program.

Second Year

Term Course # Course Name Units

Fall MICR 1 Principles of Microbiology 5

Fall HT 10 Histology 5

Fall HT 14 Advanced Histotechniques 5

Fall Lower Division GE (5) 3

Winter HT17 Clinical Rotations 2

Winter Lower Division GE (6) 3

Spring ANAT 36 Physiology 5

Spring HT16 Immunohistochemistry 3/4

Spring Biol 8 Cellular and Molecular Biology 4

Spring Lower Division GE (7) 3

Spring Lower Division GE (8) 3

Summer HT I7 Clinical Rotations 2

Summer Lower Division GE (9) 3

*Successful completion of all lower division requirements and admission to the BS in Histotechnology program are required for all upper division courses.

Third Year

Term Course # Course Name Units

Fall HT 300 Applied Immunology 3

Fall Chem 300 Biochemistry 3

Fall HT 302 Pathological basis of clinical medicine 2

Fall HT 312 Ethics & professional development in the lab 3

Fall Upper Division GE 3

Winter Upper Division GE 3

Spring HT 320 Anatomical Pathology lecture1 3

Spring HT 322 Anatomical Pathology lab I 2

Spring HT 308 Essentials of Hematology 3

Spring HT 330 Forensic Histopathology* 3

*See suggestions for electives following these tables.

Fourth Year

Term Course # Course Name Units

Summer Upper Division GE 3

Fall HT 424 Anatomical Pathology lecture 2* 3

Fall HT 426 Anatomical Pathology lab 2* 2

Fall HT 404 Cytology and Histopathology 3

Fall HT 432 Histotechnology applications in research 3

Winter Upper Division GE 3

Spring HT 406 Pathobiology of cancer and angiogenesis* 3

Spring HT 440 Advanced microscopy* 5

Spring HT 410 Laboratory Management 2

Spring HT 399 Special topics in Histotechnology 1

*Electives in the major

Requirements for BS Degree in Histotechnology

Completion of the lower division required Histotechnology courses

Application and admission to BS in Histotechnology program

Completion of courses as indicated below:

Total number of lower division units in major = 63

Total number of lower division GE units in 5 subject areas = 27-28

Total number of upper division units in the major = 28-31

Total number of upper division electives in the major (choose 3) = 8-10

Total number of upper division required units in the major (28-31 + 8-10) = 36-41

Total number of upper division GE required = 9 units

Total number of units for the degree = $63 + (27-28) + (36-41) + 9 = 135-141$

Electives within the major may include (choose 3):

- Forensic Histopathology
- Anatomical Pathology II
- Anatomical Pathology Lab II
- Pathobiology of Cancer and Angiogenesis
- Advanced Microscopy

In addition to the program-specific coursework, students also will complete the general education requirements, including the following. Note that the requirements for Area B will be met with the program coursework.

- Area A: The English Language and Critical Thinking (9 units)
- Area B: The Physical Universe and Life (9 units)
- Area C: Arts, Literature, Philosophy and Foreign Languages (9 units)
- Area D: Social, Political, and Economic Institutions and Behavior; Historical Background (9 units)
- Area E: Lifelong Understanding and Self Development (3 units)

Course Descriptions

The following table provides course descriptions for the BS Degree in Histotechnology.

Course # Topic Prereq* Units

HT 300 Applied immunology

Upper division course covering the basics of immunology with emphasis on immunotherapeutics, diagnostics, staining techniques and histological changes due to immune system activity. Innate and adaptive immunity, T/B cell development and function, autoimmunity, hypersensitivity reactions, transplant rejection, immune deficiencies, and clinical aspects of immunology will also be included.

MICR 1

3 units

CHEM 300 Biochemistry

This course explores the role of proteins, enzymes, carbohydrates, lipids, and nucleic acids in relationship to biological and metabolic processes. Separation techniques, including chromatography and electrophoresis will be covered, as well as isolation, purification, and manipulation of DNA and methods for evaluating enzyme activity.

CHEM 20

3 units

HT 302 Pathological basis of clinical medicine

The nature and causes of cell injury and death, adaptive cellular changes, inflammation, healing, repair, thrombosis, infarction, and neoplasia are described along with essential concepts of pathological processes and altered health states.

ANAT 36

3 units

HT 404 Cytology and histopathology

Fundamentals of human histology and cell cytology provide groundwork for an in-depth discussion of diagnostic indicators of histology of normal cells and tissues and their basic cytomorphology in comparison with the cytomorphology of disease states, such as inflammation and carcinogenesis.

ANAT 35

HT 10

3 units

HT 406 Pathobiology of cancer and angiogenesis

This course covers the morphological and biologic basis of human cancer development on a molecular and histologic level, including the metastatic processes, molecular carcinogenesis, mechanism that initiate and promote angiogenesis and laboratory techniques employed in diagnosis and treatment.

HT 302

3 units

HT 308 Essentials of hematology

This course is a histological, biochemical, and clinical diagnostic study of blood, blood cell formation, iron metabolism, blood pathology, and practical laboratory technology used in hematologic evaluation.

ANAT 35

3 units

HT 410 Laboratory management

This course prepares histotechnologists for leadership positions in the laboratory by developing knowledge and abilities to run a laboratory efficiently. Leadership skills, time management, personnel management, team building, motivation, quality assurance, and strategic thinking and planning prepare students for management opportunities.

Upper division standing

2 units

HT 312 Ethics and professional development in the lab

This course explores ethical and professional standards relative to a laboratory setting, covers a variety of ethical theories, and focuses on issues such as patient confidentiality, integrity, honesty, and professional conduct.

Upper division standing

2 units

HT 320 Anatomical pathology lecture

Fundamental knowledge and practical experience of human histology and pathology, including biospecimen processing and management at the organ, tissue, cellular, and molecular levels. This course is to be taken concurrently with HT 322.

HT 302

3 units

HT 322 Anatomical pathology lab 1

Reinforces the principles taught in HT 320 by utilizing human anatomical specimens in our cadaver lab for applied hands-on laboratory sessions that include dissection, preservation, processing, and sectioning of tissue.

Concurrent enrollment in HT 320

2 units

HT 424 Anatomical pathology lecture

Continuation of HT 320.

Must be taken concurrently with HT 326.

HT 320

3 units

HT 426 Anatomical pathology lab 2

Reinforces the principles taught in HT 324 by utilizing human anatomical specimens in our cadaver lab for applied hands-on laboratory sessions that include dissection, preservation, processing, and sectioning of tissue.

Concurrent enrollment in HT 424

2 units

HT 330 Forensic histopathology

This course introduces the specialty of forensic histopathology, in which discipline specific techniques are used to aid in the determination of the cause, manner, and mechanism of unusual and unconventional deaths. Medical and legal implications are covered, in addition to basic forensic principles, such as chain of evidence, appropriate reporting of findings, and privacy.

HT 302

(Recommend HT 320 & 322)

3 units

HT 432 Histotechnology applications in research

With a growing emphasis on cellular and molecular approaches to research, this course introduces the creation, maintenance, and use of human tissues and the derivatives as tools in translational research. Included are the logistics and legal aspects of creating and maintaining bio-banks, federal, state, and institutional regulatory and funding mechanisms.

Upper division standing

3 units

HT 440 Advanced microscopy

This course introduces the theory and practice of modern microscopes. Lectures cover basic physical properties of microscopy, including optics, principles of image formation, light microscopy, fluorescence microscopy, digital imaging, confocal microscopy, and electron microscopy. A lab component provides hands-on opportunities for students to work with a variety of types of microscopes, explore their features, determine the best applications, and prepare slides using

specialized techniques such as heavy metal and fluorescence staining.

HT 404

5 units

HT 399 Special topics in histotechnology:

This course provides an opportunity for students to learn about specialized techniques and hear from a variety of presenters from industry about current topics in histotechnology.

Upper division standing

1-4 units

The following table provides descriptions for suggested upper-division general education courses.

Course # Topic Area Units

ENGL 310 Scientific and technical writing: This course will help you develop skills that will enable you to produce clear and effective scientific and technical documents. Basic principles of good writing-and the types of documents common in scientific and technical fields and organizations will be included. While the emphasis will be on writing, oral communication of scientific and technical information will form an important component of the course

English

3 units

PHIL 312 Biomedical ethics

This course explores ethical issues in biological and medical research and practice. It offers an introductory survey of ethical and moral theory and investigates the application of moral and ethical theory to issues such as animal and human research, the doctor-patient relationship, reproductive technologies, and biotechnology.

Philosophy

3 units

SPCH 300 Conflict management & mediation

Examines current trends and issues in the field of conflict resolution and conflict management. Introduces methods for understanding and effectively responding to contemporary changes and challenges.

Communication

3 units

ANTH 314 Forensic anthropology

An introduction to the study of human remains for legal investigation (for instance, crime scenes, burials, and mass graves) and the kinds of biological and cultural information that can be extracted and analyzed using forensic methods of osteology, archaeology, and taphonomy. The course includes a laboratory component for hands-on experience with methods and techniques of forensic anthropology.

Science/Humanities

4 units

SOC 300 Cultural competence in the workplace

Working with different cultures requires intentional commitment to the mission of diversity in a company's vision and mission. This course will focus on cultural insights, knowledge, and practical strategies that can lead to behavioral changes in the work environment to support the goal of cultural competence.

Sociology

3 units

Faculty

The lead faculty members in the curriculum development and implementation of the proposed BS program are Jennifer MacDonald and Dr. Carmen Rexach. These and other faculty members involved in the program have worked at the department, college, and state levels to determine transfer pattern course articulation, determine course outline comparison and evaluation, write curriculum, and revise curriculum. Since 2001, Professor MacDonald HT (ASCP) has coordinated the histotechnician program at Mt. SAC, teaching all histotechnology courses and leading the efforts to secure NAACLS accreditation. Prior to her career in education, Professor MacDonald was the Anatomic Pathology Manager at San Antonio Community Hospital. She obtained her degree in Canada where she worked in all areas of the clinical laboratory, including histology.

Dr. Rexach holds an undergraduate degree from UCLA, a Master's Degree in the Pathophysiology of Human Disease from CSU Stanislaus, and a PhD in Infectious Diseases Epidemiology from UC Davis, where she conducted research in *Clostridium difficile* colitis in pediatric patients. She is a member of the Infectious Diseases Society of America, where she sits on the Public Health Advisory Committee, a member of the American Academy of Clinical Anatomists, American Society for Microbiology, the American Public Health Association, and various international organizations supporting research and clinical practice in infectious diseases. During her tenure at Mt. SAC, she authored the AS Degree in Public Health and the program's nine courses, as well as courses in pathophysiology, immunology, and genetics. She is also the author of the Certificate in Human Prosecution. Together with Virginia Pascoe, she developed and maintains a cadaver lab on campus which provides prosecuted anatomical specimens for demonstration in the many

sections of lower division anatomy we offer each term. Dr. Rexach was recognized by the American Medical Student Association (AMSA) as the recipient of the Women Leaders in Medicine Award in 2018.

Additional faculty supporting the Histotechnology Program include Elizabeta Boyer Meyer, PhD, Carola Wright, PhD, and Melissa Presch, MS.

Dr. Meyer holds two PhDs from Michigan State University (MSU): one in Biochemistry and the other in Toxicology. She completed a NIEHS pre-doctoral fellowship from 1991 to 1997. Dr. Meyer taught upper-division courses in biochemistry (lecture and lab) at Michigan State University & CSU Fullerton which included courses in genetics for majors and non-majors. She has been a faculty member at Mt. SAC since 2001, where her teaching assignments include anatomy, physiology, and cell and molecular biology, both lecture and lab, and genetics lecture. She has completed graduate level coursework in human prosection, clinical veterinary toxicology, pathology, pathophysiology, and biochemistry.

Dr. Wright holds an undergraduate degree in Pharmacology from Germany and a PhD in Biological Sciences from UC Irvine, Department of Physiology and Biophysics. She has completed extensive graduate course work in the field of medical physiology, cell physiology, molecular biology, and biochemistry, and she has conducted research resulting in four publications in the American Journal of Physiology – Cell Physiology. Significant histology, including processing and staining of muscle cells, was an intricate part of her research, which she has continued during sabbatical leave. At Mt. SAC, she has taught general biology for majors and non-majors, cell and molecular biology, microbiology, and histotechnology.

Melissa Presch holds an undergraduate biology degree from CSU Fullerton and a master's degree in Biological Science from CSU San Bernardino. Professor Presch completed 2.5 years in the Doctoral Program at UC Riverside before then deciding to pursue a career in teaching versus academic research. Professor Presch began teaching human anatomy in 1993 and as a doctoral student at UC Riverside, Professor Presch taught comparative vertebrate anatomy. After deciding to leave the program to pursue teaching, she became the coordinator for the Vertebrate Anatomy Lab Program (a two-quarter program) at CSU Fullerton that ran 30+ lab sections each quarter. Professor Presch was a lecturer and the coordinator for the upper-division Human Anatomy Program at CSU Fullerton for ten years before beginning her tenure at Mt. SAC. While at CSU Fullerton, she coordinated and taught multiple sections of human anatomy, which included maintaining the human cadaver program. Melissa has been the coordinator of the Anatomy 35: Human Anatomy program at Mt. SAC since 2010.

Facilities

Mt. SAC maintains one of the most well-equipped, dedicated student histotechnology laboratories in the nation. It includes: 24 workstations with microtomes and flotation baths, eight extra microtomes and flotation baths, six embedding stations, an automated coverslipper, two grossing centers, a tissue processor, three cryostats, two chemical fume hoods, two automated cassette labelers, two slide labelers, a digital microscope, an antigen decloaker for immunohistochemistry stains, three drying ovens (one is high-capacity), heating plates and surface thermometers for in situ hybridization, two water baths, 26 student microscopes, one teaching microscope, microscope projection equipment, two paraffin dispensers, four dedicated staining stations, humidity chambers for immunohistochemistry staining, a centrifuge, and a cytocentrifuge. As needed when the BS program grows, the college will expand the laboratory space and equipment with growth funds, instructional equipment allocations, new resource allocations, grant requests, and/or enhanced partnerships with employers.

9. Administrative Plan - Please submit the administrative plan for the proposed baccalaureate degree program, including, but not limited to, the governing board of the district's funding plan for its specific district.

[Mt. SAC Baccalaureate Degree Prompt 9 Response Jan 15 2022.pdf](#)
[Baccalaureate Degree Application MT SAC January 15 2022.pdf](#)

4. D. Baccalaureate Degree Program Application (Cont.)

10. Master Planning – Explain how the proposed baccalaureate degree program fits into the mission, curriculum, and master planning of the college and higher education in California. Please submit documentation that verifies how your district maintains the primary mission of the California Community Colleges specified in [paragraph \(3\) of subdivision \(a\) of Section 66010.4 of article 2 of chapter 2 of division 5 of title 3 of the California Code of Regulations](#). As a part of a proposed baccalaureate degree program, your district shall demonstrate how its mission provides a high-quality undergraduate education at an affordable price for students and the state.

The proposed BS Degree in Histotechnology program at Mt. SAC will provide students with a degree that leads directly to high wage employment and the status of a baccalaureate degree, which fulfills the college mission "to support and empower all students in achieving their educational goals in an environment of academic excellence. Specifically, the College is committed to providing quality education, services, and workforce training so that students become contributing members of a diverse, sustainable, global society. The College pledges to serve students so that they may achieve their full educational potential for lifelong learning, for attaining associate degrees and certificates, for employment, and for 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, developing critical thinking, and enriching aesthetic and cultural experiences." Students who complete the BS Degree in Histotechnology will be prepared to enter the workforce at a high level of skill and compensation, improving their socio-economic standing and providing them with a stable career path. These outcomes directly meet the mission of Mt. San Antonio College.

The baccalaureate program dovetails seamlessly with the A.S degree program in Histotechnology at Mt. SAC. Students who complete the lower division A.S. degree have met the GE requirements and science specific requirements which prepare them for the upper division courses needed to complete the B.S. degree. Mt. SAC has existing curriculum for the A.S. program and is building on the already created upper division course work—both in the discipline and G.E.s to allow students to complete a strong baccalaureate program. The curriculum at both levels is guided by standards set by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and professional level competencies set by the American Society of Clinical Pathology.

The baccalaureate program in Histotechnology is a featured goal of the 2018 Mt. San Antonio College Education and Facilities Master Plan update. The college has been planning to apply for, and support if awarded, the ability to offer a B.S. in Histotechnology. Planning for Institutional Effectiveness (PIE) has included support for this new program since 2017. The college has positioned itself to present a strong case for this application. Included in the planning is recognition of additional resources needed to support the program, including faculty, staff, equipment, and classroom/lab space. Curriculum supported in the Master Plan of 2018, has already been developed. If our application is accepted, Mt. SAC has planned and is ready to fully support the implementation of a Baccalaureate program.

With the passing of AB 927, it provides the opportunity for California Community Colleges to offer Baccalaureate Degrees in areas which are not currently served by California State Universities or the University of California System, particularly where there is high demand in the workforce for trained personnel to meet labor market needs. Currently, no other Histotechnology bachelor's degree exists in California, at UC or CSU. This also includes private universities. None of these higher education institutions offer bachelor's degree in Histotechnology to meet the labor market need as indicated in our application. Mt. SAC graduates will be in high demand, employable, and ready to fulfill the primary mission of California Community Colleges and higher education as outlined below.

As stated in California Education Code 66010.4, "the primary mission of the California Community Colleges is to advance California's economic growth and global competitiveness through education, training, and services that contribute to continuous work force improvement." Mt. San Antonio College's Baccalaureate Degree program will support the mission of California Community Colleges by providing additional job opportunities in Histotechnology. With Mt. SAC offering a bachelor's degree in Histotechnology, it will become the fifth college or university to offer this BS program in the United States and will be the only Histotechnology BS program in California. With the establishment of a Histotechnology BS Program, this will address both the economic growth of California and our global competitiveness by providing trained members of the workforce who are not found elsewhere in the state or region. The healthcare industry in California requires trained histotechnology personnel at both the technician (associate degree) and technologist (baccalaureate degree) levels. Our associate degree and bachelor's degree in Histotechnology will meet these needs for the state and region.

The Histotechnology baccalaureate degree program at Mt. SAC will provide a high-quality undergraduate education at an affordable price for students in the community and the state of California. Tuition alone for the BS in Histotechnology would be approximately \$11,000 for the four years, compared to approximately \$24,000 at a CSU and approximately \$46,000 at a UC. The Mt. SAC Histotechnology BS degree is a streamlined, affordable option for students obtaining a baccalaureate degree to advance their career in Histotechnology. Mt. SAC includes information about the affordability of classes and how the best value for students on the college's website.

Mt. San Antonio College has the honor of being federally designated as a Hispanic Serving Institution (HSI) and an Asian American and Native American Pacific Islander Serving Institution (AANAPISI) with an enrollment of 61.78% Hispanic students and 20.19% Asian students for the 2020-2021 academic year. The Histotechnology program has a diverse student body and exceeds the state negotiated level for nontraditional enrollment.

As such, the Histotechnology bachelor's program provides an affordable and high-quality alternative for students seeking a baccalaureate degree in Histotechnology. For students seeking a career in Histotechnology, the only other option is to transfer to a UC or CSU in a related field or move out of state.

11. Enrollment and Completer Projections – Please submit annual enrollment projections for the proposed baccalaureate degree program.

[Mt. SAC Baccalaureate Degree Prompt 11 Response Jan 15 2022.pdf](#)
[Baccalaureate Degree Application MT SAC January 15 2022.pdf](#)
[Copy of Survey results.pdf](#)

12. Place of Program in Curriculum/Similar Programs – Please explain how the proposed baccalaureate degree program fits in the college’s existing program inventory.

Mt. SAC offers a variety of Certificates of Achievement and AS Degrees in the allied health professions such as Emergency Medical Technician – Paramedic (certificate); Mental Health Technology – Psychiatric Technician (certificate and AS); Emergency Medical Services (AS); Nursing (AS); Radiologic Technology (AS); Respiratory Therapy (AS); Public Health (AS); and Histotechnology (AS). When students complete these programs and pass the licensing examinations, they are immediately eligible for employment in these allied health fields. The Histotechnology Program aligns seamlessly with these allied health programs and provides immediate employment for students completing the Histotechnology Program.

Students enrolled in the current associate degree program can transition smoothly into the baccalaureate degree program. Graduates of the program will also be able to transition into the program. Mt. SAC students currently enrolled in a medical/science major can apply for the BS degree in Histotechnology. A BS in Histotechnology is a natural progression in Mt. SAC’s existing program inventory providing the college with its first baccalaureate degree.

5. E. Baccalaureate Degree Program Application (Cont.)

13. Program Transitions or Transfer– Please describe how the proposed baccalaureate degree program allows for students to transition to Associate degree programs and transfer to other 4-year institutions if needed.

Students who complete the AS degree in Histotechnology are prepared to enter the workforce at entry level positions. They can also apply for admission into the BS program or transfer to a four-year school without much additional coursework.

Students who enter the Histotechnology baccalaureate program upon completion of the AS degree in Histotechnology will have completed substantial GE requirements and a broad spectrum of introductory science courses. With that background, transferring to either CSU or UC campuses in a wide variety of science disciplines would require minimal additional coursework.

Students who enter the Histotechnology baccalaureate program can easily transition to the AS program if they have not previously completed it. Students who change their major or educational goal can utilize all the GE and many of the science courses taken in either the AS or BS program in support of their new education goal.

14. Board of Governors Fee Waiver - Please submit documentation of your district’s written policy that requires all potential students who wish to apply for a Board of Governors Fee Waiver pursuant to Section 76300 to complete and submit either a Free Application for Federal Student Aid or a California Dream Act application in lieu of completing the Board of Governors Fee Waiver application.

[Mt SAC Baccalaureate Degree Prompt 14 Response Jan 15 2022.pdf](#)
[Baccalaureate Degree Application MT SAC January 15 2022.pdf](#)
[AP5130 1 12 22.pdf](#)

15. California State University and the University of California Consultation – Please submit documentation of consultation with the California State University and the University of California regarding collaborative approaches to meeting regional workforce needs.

[Mt SAC Baccalaureate Degree Prompt 15 Response Jan 15 2022.pdf](#)
[Mt SAC Prompt 15 Letters of Support Jan 15 2022.pdf](#)
[Baccalaureate Degree Application MT SAC January 15 2022.pdf](#)

16. California State University and the University of California Non-Duplication - Please submit documentation that the proposed baccalaureate degree program or program curricula is not already offered by the California State University or the University of California.

[Mt SAC Baccalaureate Degree Prompt 16 Response Jan 15 2022.pdf](#)
[HTL Programs California.pdf](#)
[HTL Programs National.pdf](#)
[Baccalaureate Degree Application MT SAC January 15 2022.pdf](#)

6. College/District Contact Information

16. District/College Contact Information

District Name

Mt. San Antonio Community College District

College Name

Mt. San Antonio College

Address

1100 N. Grand Ave

City

Walnut

State

CA

Zip

91789

College Contact Completing the Application First Name

Kelly

College Contact Completing the Application Last Name

Fowler

College Contact Completing the Application Title

Vice President of Instruction

College Contact Completing the Application Email Address

kelly.fowler@mtsac.edu

College Contact Completing the Application Phone Number

9092745414

College Contact Completing the Application Mobile Phone

5599990998

College President First Name

William

College President Last Name

Scroggins

College President Phone

9092744250

College President Email

bscroggins@mtsac.edu

College President Signature Block**College President Signature Date Block****Chief Instructional Officer First Name**

Kelly

Chief Instructional Officer Last name

Fowler

Chief Instructional Officer Phone

9092745414

Chief Instructional Officer Email

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Chief Instructional Officer Signature Block

Chief Instructional Officer Date Block

Academic Senate President First Name

Chisato

Academic Senate President Last Name

Uyeki

Academic Senate President Phone

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Academic Senate President Email

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Academic Senate President Signature Block

Academic Senate President Date Block

Curriculum Chair First Name

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