

Recommendations for Including Robotics and Turf Teams in Priority Registration

Overview

To support equitable treatment and optimize student success, this document recommends amending AP 5055: Enrollment Priorities to include Robotics and Turf Teams in Category 2 priority registration.

Proposed Amendment

Amend Category 2 to include members of the Robotics Team (ENGR 50A & 50B) and Turf Team. This aligns with existing policies for competitive and performance groups, as outlined in Title 5, Section 58108.

Rationale

- Equitable treatment: Robotics and Turf Teams meet criteria as competitive groups requiring flexible schedules.
- Student success: Priority registration enables course alignment with practice and competition schedules.
- Proven excellence: Both teams have achieved significant national and regional accolades.

Summary of Achievements

1. Robotics Team: National top 10 placements 6 times, only community college to win a university world championship, organizes regional tournaments.
2. Turf Team: 8-time National Champions, recognized for diversity and excellence in sports turf management.

Recommendation

Include Robotics and Turf Teams in Category 2 priority registration to promote equity, support student success, and uphold Mt. SAC's competitive legacy.

Student Preparation, Equity and Achievement Council

AP 5055: Enrollment Priorities

Mt. San Antonio College

fall 2024



November 18, 2024

eugene i. d. mahmoud



Outcome for Fall 2024

| | MT.SACI Mt. San Antonio College | | Citrus College | |
|------------------------|------------------------------------|-----------|----------------|-----------|
| | Application | Admission | Application | Admission |
| Civil Eng. | 6 | 5* | 3 | - |
| Mech. Eng. | 8 | 8 | 14 | - |
| Avg. GPA | | 3.12 | | |
| Agv. EI** | | 4,241 | | |
| Admission Bonus Points | # of Courses | Points | # of Courses | Points |
| | "Level 1" | 5 | 25 | 4 |
| | "Level 2" | 9 | 50 | 9 |
| | "Level 3" | 13 | 75 | |
| | "Level 4" | 23 | 100 | |
| Incomplete | - | 10 | | |

* 1 student didn't meet the CSU Minimum Requirement (60 units)
 **EI (Eligibility Index); GPA, Supplemental requirements (Impacted), ADT, Local
 (CAELC) STEM Transfer Pathway to Cal Poly Pomona (4/11/2024)

Civil Engineering Technology AS

Mechanical Engineering Technology AS

Electrical Engineering Technology AS

Software Engineering Technology AS

Chemical and Materials Engineering Technology AS

Engineering Sales AS

Civil Engineering Technology Level 2

Mechanical Engineering Technology Level 2

Electrical Engineering Technology Level 2

Software Engineering Technology Level 2

Chemical and Materials Engineering Technology Level 2

Civil Engineering Technology Level 1

Mechanical Engineering Technology Level 1

Electrical Engineering Technology Level 1

Software Engineering Technology Level 1

Chemical and Materials Engineering Technology Level 1

Technical Sales

Engineering Technology Fundamentals

AP 5055 Establishing Enrollment Priority

Certain groups of students are afforded early priority registration based on particular programmatic involvement. This would **include students who have attained a status and are active on competitive teams or performance groups** that require the students to enroll within prescribed time blocks to accommodate required practice, rehearsal, competition, and performance schedules.



Recommendation 1

Whereas, Category 2 of AP 5055 currently states:

*Members of **competitive athletic teams**, musical performance groups, forensics, dance/cheerleading, **other performance groups**, Associated Student Government Officers, new students who have completed matriculation through the Connect 4 program, and matriculating noncredit students.*

Amend Category 2 of AP 5055 to include members of:

- 1) the Robotics Team (ENGR 50A & 50B)
- 2) the Turf Team.

Rationale:

Members of the Robotics team and Turf team are **“students who have been accepted as members of a College-designated competitive team or performance group”**. A revised AP 5055, in alignment with Title 5, Section 58108, would provide Category 2 priority registration for Robotics and Turf team members in order “to accommodate required practice, rehearsal, competition, and performance schedules” in alignment with the affordances offered to members of other competitive teams and performance groups at Mt. SAC. The inclusion of the Robotics and Turf team members in Category 2 of AP 5055 would broaden equitable treatment of student team members at Mt. SAC, and support successful student participation related competitions.

Executive Summary of Team Accomplishments

The Mt. SAC Robotics Team has competed nationally for the last 15 years placing in the top 10 nationally 6 times and is **the only community college team to have won the university robotics world championship**. In addition to competing at invitationals and in a robotics league, the coaches organize four robotics tournaments a year for both college and K12 teams that serve a dozen local universities and typically forty K12 schools. In addition, the Mt. SAC robotics team has provided the referee and judging staff for the Southern California VEX High school and middle school state championships on a regular basis for the past decade, which we have helped to organize at the LA County Fairgrounds and other large venues. **One of the Mt. SAC coaches was recognized in 2022 with the national founder's award for the outstanding contribution to robotics in education.**

The Mt. SAC Turn Team provides the college with recognizable achievements in one of the nation's leading industries. The Collegiate Challenge is held at the annual Sports Turf Managers Association National Conference at varying locations throughout the country each January. **In 2007 our team won the national championship**. In 2008, our teams finished third and fifth nationally. **In 2011 we won the national championship again by defeating Penn State**. Our second team finished sixth. In 2014, our two teams (both were co-ed teams) finished in 1st and 3rd nationally, securing the fourth National Championship for Mt. SAC. **In 2016, we once again won the National Championship (a \$5,000 prize) and had a 3rd place team as well. And, once again we had two of the most diverse teams in the competition based on gender and nationality**. In 2017, we had an identical finish to 2016, **winning 1st and 3rd place along with another \$5,000 in prize money**. In 2018 we nearly had a clean sweep. **We took 1st, 2nd and 4th**. Our 4th place team finished 1 point behind Penn State who placed 3rd. **In case you lost track, we have now won the National Championship three years in a row! Since 2007, we have had eight first-place finishes, five second-place finishes and eleven third-place finishes.**

Evidence of Prior Requests



From: Bradshaw, George <gbradshaw@mtsac.edu>
Sent: Wednesday, October 2, 2019 10:49 AM
To: Vitullo, John <jvitullo@mtsac.edu>
Cc: Mahmoud, Eugene <emahmoud@mtsac.edu>; Judd, Matthew <mjudd@mtsac.edu>
Subject: RE: Priority Registration

Hello John:

Historically, the request goes through SP&S Council and is reviewed/decided upon there. If/when approved, there is a separate functional process to actually give individual students an earlier enrollment date/time. I hope this helps. If you need something else, let me know.

GB

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Sent: Wednesday, October 2, 2019 7:58 AM
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Subject: Priority Registration

Hi George,

Engineering department chair and Robotics coach Eugene Mahmoud asked me about the process to get priority registration for the Robotics team students. I know we offer that to the Forensics team (another academic competition team) but I cannot remember the process to seek approval. Can you share with us?

Thank you,



[AP 5055 Enrollment Priorities](#) – Request to add Turf Team and Robotics Team to the Category 2 Teams

The Robotics team and Turf team have requested to be added to the category 2 section of AP 5055 Enrollment Priorities. Currently, AP 5055 is being worked on to add student parents but has been tabled until we receive more guidance from the state.
Questions in mind when adding groups: who provides this oversight? Who programs this? Did we identify a process to consider new requests?
George shares that the requests have come to this body in the past. The most recent one was from the Teacher Preparation

George will lead the task force. Maridelle will poll the Council for volunteers.

Task force will meet and present plan to Council at a future meeting.

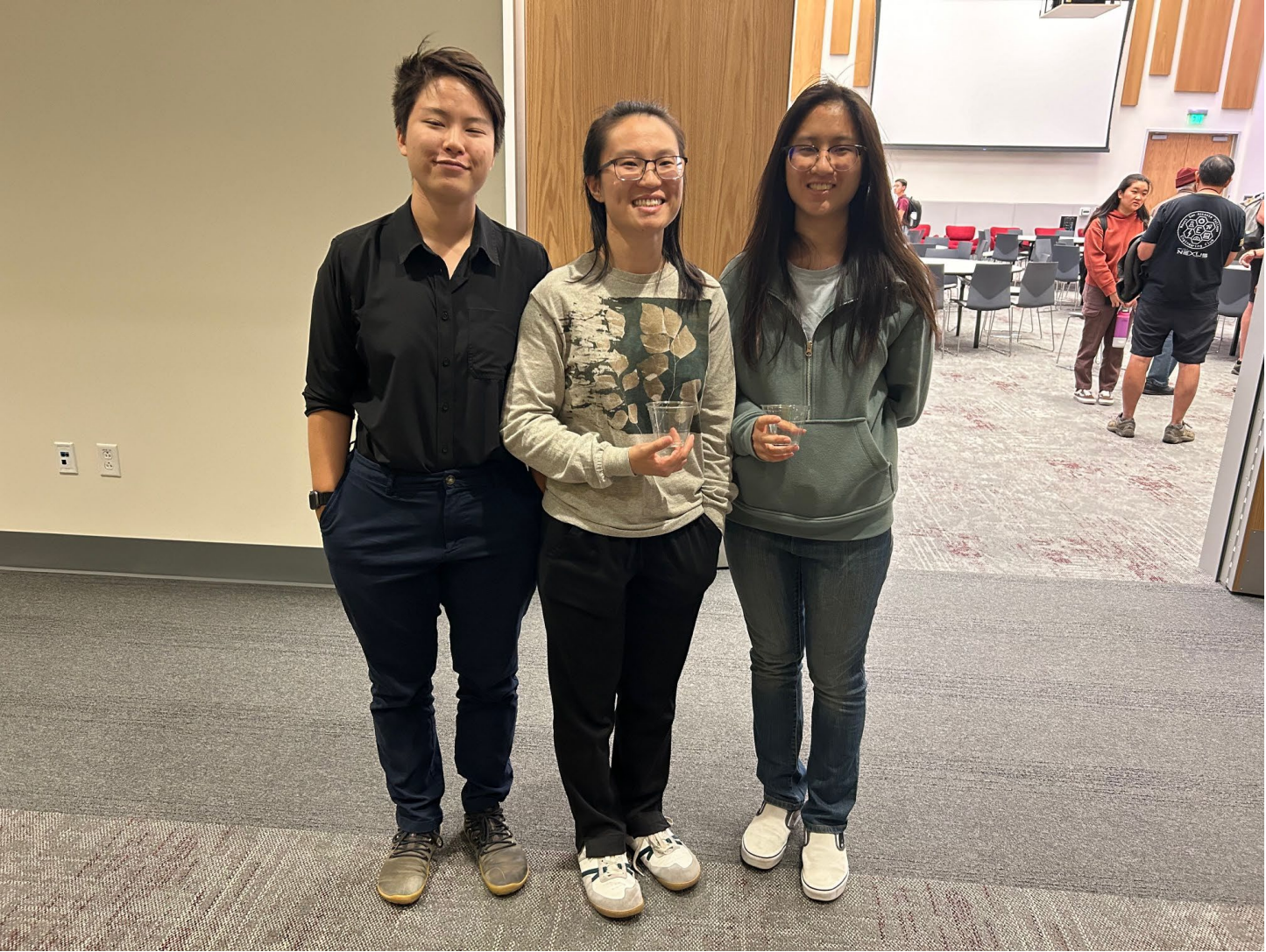
Questions on Recommendation 1

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- 2) the Turf Team.



Thank You



Academic Senate Executive Board Meeting

Discussion of Enrollment Priorities / AP 5055

Mt. San Antonio College

fall 2024



December 12, 2024

eugene i. d. mahmoud

Professor of Engineering, Engineering Technology and Physics



• Outcome for Fall 2024

| | Citrus College | | Application | | Admission | |
|------------------------|----------------|-----------|--------------|-----------|--------------|-----------|
| | Application | Admission | Application | Admission | Application | Admission |
| Civil Eng. | 6 | 5* | 3 | - | - | - |
| Mech. Eng. | 8 | 8 | 11 | - | - | - |
| Avg. GPA | | 3.12 | | | | |
| Agv. EI** | | 4,241 | | | | |
| Admission Bonus Points | # of Courses | Points | # of Courses | Points | # of Courses | Points |
| | "Level 1" | 5 | 25 | 4 | 20 | 50 |
| | "Level 2" | 9 | 50 | 9 | 45 | 90 |
| | "Level 3" | 13 | 75 | 13 | 65 | 130 |
| | "Level 4" | 23 | 100 | 23 | 90 | 220 |
| Incomplete | - | 10 | - | 0 | - | 0 |

* 1 student didn't meet the CSU Minimum Requirement (60 units)
 **EI (Eligibility Index): GPA, Supplemental requirements (Impacted), ADT, Local

(CAELC) STEM Transfer Pathway to Cal Poly Pomona (4/11/2024)



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Turf Team Accomplishments

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Navigating the request process



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AP 5055: Establishing Enrollment Priority



The purpose of establishing registration priorities is to enable students to enter and be able **to complete their educational goals at Mt. SAC in a reasonable timeframe** by providing priority registration to groups of students with special needs and to maintain that priority as long as they continue to make good progress.

100-unit limit exemptions

Whereas, AP 5055 makes numerous to “100 units” as a criteria for enrollment categories:

Category 6: Continuing and returning students with 100 or more degree-applicable units completed at Mt. SAC.

Loss of Priority and Appeal Process

Pursuant to Title 5 Section 58108 (h), a student in any category except Foster Youth will lose registration priority at the first registration opportunity if any of the following occur:

- *the student has earned one hundred (100) or more degree-applicable semester units at the District.*

Title 5 § 58108, clause *h 2 C* states:

Districts may adopt policies to exempt from the 100-unit limit categories of students, including but not limited to, those enrolled in high unit majors or programs

which would allow Mt. SAC to develop an exemption from the 100-unit limit categories for STEM students

Comments from students

Documents Required (Please attach statement in PDF format)

NOTE: (Failure to address a minimum of 3 items below may result in a denied appeal):

A. Student Statement:

1. Explain (in detail) the nature of the unusual or mitigating circumstances and how it contributed to the accumulation of 100+ units. Include details and timelines regarding your circumstances (e.g. why you changed your major, personal circumstances, health issues, etc.).
2. Explain in detail why you have not completed a degree or certificate despite accumulating 100+ units
3. If you have completed a degree or certificate, explain why you will continue to take classes next term
4. Explain how you decided upon your current major goal and clearly indicate what specific classes you have left and when you plan to finish.

- Winter & Spring appeal deadlines were combined and moved forward without notice
- 100 Unit Appeal language is demoralizing, and minoritizing
- No clear rubric or criteria for the appeal process

Rationale for STEM student exemption

- Many STEM transfer students take over 100 units of degree applicable coursework to establish eligibility for transfer programs
- The December 2023 Final report from The Associate Degree for Transfer Intersegmental (AB 928) Committee specifically laments that intersegmental course articulation is a “complex” and “decentralized” process, that contributes to the lack of statewide degree pathways in STEM programs at CSU and UC campuses.
- Students who exceed 100 units are compelled to co-enroll or swirl to complete planned coursework, **and their educational goals are often delayed as a result.**
- New credit-bearing support classes and varying general education requirements (or exemptions) also contributes to the course load of high-unit STEM transfer students.
- Will there be a separate exemption for Histotech B.S. degree students?

| SUBJ NO. | COURSE TITLE | IGETC CSU | CRED GRD | PTS R |
|--|----------------------|-----------|----------|---------|
| Institution Information continued: | | | | |
| ENGL 1A | Freshman Compos 1A | A02 | 4.00 | A 16.00 |
| MATH 181 | Calculus and An 2 | B04 | 4.00 | A 16.00 |
| PHYS 4A | Engineering Phy 5A5C | B01B03 | 5.00 | A 20.00 |
| Ehrs: 18.00 GPA-Hrs: 18.00 QPts: 72.00 GPA: 4.00 | | | | |
| President's List | | | | |
| Winter 2023 | | | | |
| ENGR 1C | Engineering Cri 1B | A03 | 3.00 | A 12.00 |
| MATH 280 | Calculus and An 2 | B04 | 5.00 | A 20.00 |
| Ehrs: 8.00 GPA-Hrs: 8.00 QPts: 32.00 GPA: 4.00 | | | | |
| Spring 2023 | | | | |
| CHEM 51H | General Chemist 5A5C | B01B03 | 5.00 | A 20.00 |
| CSCI 110 | Fundament of Co | | 3.50 | A 14.00 |
| KINI 40A | Tennis - Beginn | | 1.00 | A 4.00 |
| MATH 285 | Lin Algebra and 2 | B04 | 5.00 | A 20.00 |
| PHYS 4B | Engineering Phy 5A5C | B01B03 | 5.00 | A 20.00 |
| Ehrs: 19.50 GPA-Hrs: 19.50 QPts: 78.00 GPA: 4.00 | | | | |
| President's List | | | | |
| Summer 2023 | | | | |
| SPCH 1AH | Public Speaking 1C | A01 | 4.00 | A 16.00 |
| Ehrs: 4.00 GPA-Hrs: 4.00 QPts: 16.00 GPA: 4.00 | | | | |
| Fall 2023 | | | | |
| CSCI 140 | C++ Language & | | 4.00 | A 16.00 |
| ENGR 1 | Introduction to | | 2.00 | A 8.00 |
| ENGR 40 | Statics | | 3.00 | A 12.00 |
| ENGR 44 | Electrical Engi | | 4.00 | A 16.00 |
| ENGR 7 | MATLAB for Engi | | 4.00 | A 16.00 |
| KINI 40B | Tennis - Intern | | 0.50 | A 2.00 |
| PHYS 4C | Engineering Phy 5A5C | B01B03 | 5.00 | A 20.00 |
| ***** CONTINUED ON NEXT COLUMN ***** | | | | |

| SUBJ NO. | COURSE TITLE | IGETC CSU | CRED GRD | PTS R |
|--|-----------------|-----------|----------|----------|
| Institution Information continued: | | | | |
| Ehrs: 22.50 GPA-Hrs: 22.50 QPts: 90.00 GPA: 4.00 | | | | |
| President's List | | | | |
| Winter 2024 | | | | |
| ENGR 50A | Robotics Team P | | 2.00 | A 8.00 I |
| Ehrs: 2.00 GPA-Hrs: 2.00 QPts: 8.00 GPA: 4.00 | | | | |
| Spring 2024 | | | | |
| CSCI 240 | Data Structures | | 5.00 | A 20.00 |
| ENGR 24 | Engineering Gra | | 4.00 | A 16.00 |
| ENGR 41 | Dynamics | | 3.00 | B 9.00 |
| ENGR 42 | Mechanics of Ma | | 4.00 | A 16.00 |
| ENGR 50A | Robotics Team P | | 2.00 | A 8.00 I |
| ENGR 8 | Properties of M | | 4.00 | A 16.00 |
| Ehrs: 22.00 GPA-Hrs: 22.00 QPts: 85.00 GPA: 3.86 | | | | |
| President's List | | | | |
| Summer 2024 | | | | |
| CHEM 99 | Special Project | | 2.00 | A 8.00 |
| Ehrs: 2.00 GPA-Hrs: 2.00 QPts: 8.00 GPA: 4.00 | | | | |
| ***** TRANSCRIPT TOTALS ***** | | | | |
| MT SAC CUM | Earned Hrs | GPA Hrs | Points | GPA |
| | 128.00 | 128.00 | 506.00 | 3.95 |
| ***** Degree Totals ***** | | | | |
| MT SAC DEG | Earned Hrs | GPA Hrs | Points | GPA |
| | 128.00 | 128.00 | 506.00 | 3.95 |
| TOTAL TRANSFER | 21.00 | 0.00 | 0.00 | 0.00 |
| OVERALL | 149.00 | 128.00 | 506.00 | 3.95 |
| ***** END OF TRANSCRIPT ***** | | | | |

Questions

Amend Category 2 of AP 5055 to include members of:

- 1) the Robotics Team (ENGR 50A & 50B)
- 2) the Turf Team

Develop policies to exempt STEM students from 100-unit limit categories with regards to enrollment priorities



Policies that impacts Engineering Transfer

| Common General Education (GE) course | Common Engineering Transfer Courses | Common Major Specific Transfer Requirements |
|--|---|---|
| Yes, and GE course requirements and exemptions vary. | Yes, but course equivalency and program requirements vary by institution and program. Many course articulations require bilateral agreements. | No. Only bilateral agreements provide recognition for pre-transfer certificates and associate degrees in engineering. |

| Localized Course Articulation | Statewide Transfer Pathways limitations | Conditional University Transfer Partners |
|--|---|--|
| Despite statewide policy and the development of intersegmental transfer model curricula, course articulations vary by program and institution-specific agreements. | There are no statewide engineering pathways. Transfer students can participate in transfer admission guarantees and dual enrollment, and bridge programs. | Engineering programs in the California State University and University of California vary in their transfer pathway partnership. |

Mt. SAC Mechanical Engineering Program Course Articulations (Evidence of Curricular Complexity)

| | Cal State LA | San Jose State | Cal Poly Pomona | Cal State Long Beach | UCLA | UC Berkeley | Cal Poly SLO | UCI | UCR | UCSB | | |
|-------------|----------------|-----------------|-----------------|----------------------|--------------------------|--------------------------|-------------------|--------------------------------|--------------------|---------------|--|---|
| MATH 180 | MATH 2110 | MATH 030 | MAT 1140 | MATH 122 | MATH 31A | MATH 1A | MATH 141 | MATH 2A | MATH 9A/9B | Math 3A | | |
| MATH 181 | MATH 2120 | MATH 031 | MAT 1150 | MATH 123 | MATH 31B | MATH 1B | MATH 142/143 | MATH 2B | MATH 9B/9C | Math 3B | | REQUIRED |
| MATH 280 | MATH 2130 | MATH 032 | MAT 2140 | MATH 224 | MATH 32A/B | MATH 53 | MATH 241 | MATH 2D & 2E | MATH 10A/10B | Math 6A/6B | | NO ARTICULATION |
| MATH 260 | MATH 2550 | | | MATH 247/347 | MATH 33A | | | MATH 3A | MATH 31 | Math 4A | | ARTICULATES, BUT NOT REQUIRED TO TRANSFER |
| MATH 290 | MATH 2150 | MATH 033LA | MAT 2240 | MATH 364A/B | MATH 33B | MATH 54 | | MATH 3D | MATH 46 | Math 4B | | INQUIRE ABOUT PETITION |
| ENGR 285 | MATH 2150/2550 | MATH 033A | MAT 2240 | | MATH 33A (or MECH&AE 82) | MATH 54 | MATH 244 | MATH 3A & 3C | MATH 31/46 | Math 4A/4B | | |
| PHYS 4A | PHYS 2100 | PHYS 050 | PHY 1510/L | PHYS 151 | | PHYSICS 7A | PHYS 141 | PHYSICS 7C/L | PHYS 40A | PHYS 1/2 | | |
| PHYS 4B | | PHYS 051 | PHY 1520/L | PHYS 152 | | PHYSICS 7B | PHYS 132 | PHYSICS 7D/L | PHYS 40B | PHYS 2/3/3L | | |
| PHYS 4C | PHYS 2200 | PHYS 052 | PHY 2530/L | PHYS 254 | PHYSICS 1A/1B/1C/4AL/4BL | PHYSICS 7C | PHYS 133 | PHYSICS 7E/52A | PHYS 40C | PHYS 4/4L | | |
| ENGR 1 | ENGR 1500 | ENGR 010 | EGR 100/L | ENGR 101 | ENGR 2 | ENGIN 1 | CE 111 | | | | | |
| ENGR 1C | ENGL 2030 | ENGR 100 W | CE 2011 | GE | | ENGLISH R1B | ENGL 149 | | | | | |
| ENGR 6 | EE 2450 | | ECE 1310 | | | | | ENGRMAE 10 | | | | |
| ENGR 7 | ME 2800 | ME 030 | ME 1101/1101L | MAE 205 | MECH&AE M20 | ENGIN 7 | CSC 231 | ENGRMAE 10 | ME 18A | ENGR 3 | | |
| ENGR 8 | ME 2070 | MATE 025 | MTE 2070 | MAE 322/361 | MAT SCI 104 | MAT SCI 45/45L | MATE 210 | ENGR 54 | | | | |
| ENGR 18 | | | | | | ENGIN 27 | | | | | | |
| ENGR 24 | ME 2030 | ME 020 | ME 1001/L | MAE 172/A | MECH&AE 94 | ENGIN 25 | ME 129/130 or 228 | ENGRMAE 52 | ME 9 | ME 10 | | |
| ENGR 40 | ME 2010 | CE 095 | ME 2141 | C E 205 | MECH&AE 101 (w/ ENGR 42) | MEC ENG C85 (w/ ENGR 42) | ME 211 | ENGRMAE 30 | ME 10 | ME 14 | | |
| ENGR 41 | ME 3200 | ME 101 | ME 2150 | MAE 371 | MECH&AE 102 | MEC ENG 104 | ME 212 | ENGRMAE 80 | | ME 16 | | |
| ENGR 42 | ME 2050 | CE 112 | ME 2191 | MAE 373 | MECH&AE 101 (w/ ENGR 40) | MEC ENG C85 (w/ ENGR 40) | CE 204 | | | ME 15 | | |
| ENGR 44 | ME 2040 | EE 098 & EE 097 | ECE 1101/L | E E 211/211L | EC ENGR 100 | | EE 201 & 251 | EECS 70A/LA | EE 1A/1AL | ME 6/ECE 5 | | |
| CHEM 50/50H | CHEM 1040 | CHEM 001A | CHM 1210/L | CHEM 111A | | | CHEM 124 | (CHEM 1A or ENGR 1A) & CHEM LE | CHEM 1A/1AL | CHEM 1A/1AL | | |
| CHEM 51 | CHEM 1100 | | CHM 1220/L | CHEM 111B | CHEM 20A/20B/20L | CHEM 1A/1AL/1B | CHEM 125 | CHEM 1A/1B/1C/1LC/1LD | CHEM 1B/1BL | CHEM 1B/1BL | | |
| CHEM 80 | CHEM 2200/L | | | | | CHEM 3A/3AL | | CHEM 51A/51B/51LB/51C/51LC | CHEM 8A/8LA/8B/8LB | CHEM 1C/1CL | | |
| CHEM 81 | | | | | | CHEM 3B/3BL | | | CHEM 8B/8LB/8C/8LC | CHEM 6BL/109B | | |
| ELEC 56 | EE 2440 | | | E E 201 | | | | | | | | |
| BIO 4 | | | | | | | | | BIO 5A/5LA | | | |
| CISP 21/L | | | | | | | | | CS 10A/10B | | | |
| CISP 31/31L | | | | | | | | | CS 10A/10B | CMPSC 16 | | |
| CISP 34/34L | | | | | | | | | CS 10A | CMPSC 24 | | |
| CSCI 110 | | | | | | | | | CS 10A/61 | | | |
| CSCI 145 | | | | | | | | | CS 10A/10B | | | |
| CSCI 140 | | | | | | | | | CS 10A/10B/13 | CMPSC 16 | | |
| CSCI 150 | | | | | | | | | CS 10A/61 | CMPSC 64 | | |
| CSCI 190 | | | | | | | | | CS 11 | CMPSC 40 | | |
| CSCI 220 | | | | | | | | | CS 10C | CMPSC 24* | | |
| CSCI 230 | | | | | | | | | CS 10C | CMPSC 24* | | |