



SOE

**School of
Engineering**

JumpStart 3rd Year- Presentation

Undergraduate Academic Advisor Team

Topics

- Introduction
- JS3 Overview
 - Requirements
- MyDegreePath
- Things you should know
- Career Planning
- Webform

Degree Requirements

Requirements are based on **catalog year** you entered

2024-2025

[Catalog.ucmerced.edu](https://catalog.ucmerced.edu)

Remember your catalog year doesn't change.

Important Links

Engr-advising.ucmerced.edu

- Appointments and Walk-in Hours
- Policies
- Major info, flow charts, etc.
- Engineering specific forms

Registrar.ucmerced.edu

- All university policies, procedures, deadlines
- All university forms

Advising.ucmerced.edu

- For general campus advising information



Don't "Google" it –
look within the site
or catalog

Overview of MyDegreePath

Running a Degree Audit using MyDegreePath

my degree **PATH**

[Home](#) [Students ▾](#) [Reports](#) [Audits ▾](#) [Schedules](#) [Courses ▾](#) [Exceptions](#) [Transfer Evaluations](#)

Student: **Test Udirect / 999999999**

Request an Audit

Run Declared Programs:

School	Degree Program	Title	Catalog Year	Marker	Value	Type	CATLYT
	U1BA_ANTH	Anthropology, BA	Fall Semester 2010	\$MINOR	NDSC-MINR	R	

Default Program List

Select a Different Program:

Advanced Settings [Click to view available options.](#)

Run Program

Cancel

Explore Requirements for Minors/Majors

my degree **PATH**

HomeStudents ▼Reports

Student: Test Udirect / 999999999

Audits ▼SchedulesCourses ▼ExceptionsTransfer Evaluations

Request an Audit

Run Declared Programs:

Select a Different Program:

Choosing a degree program here will not change your declared degree program.

Program:Mechanical Engineering, BS -
U1BS_ME

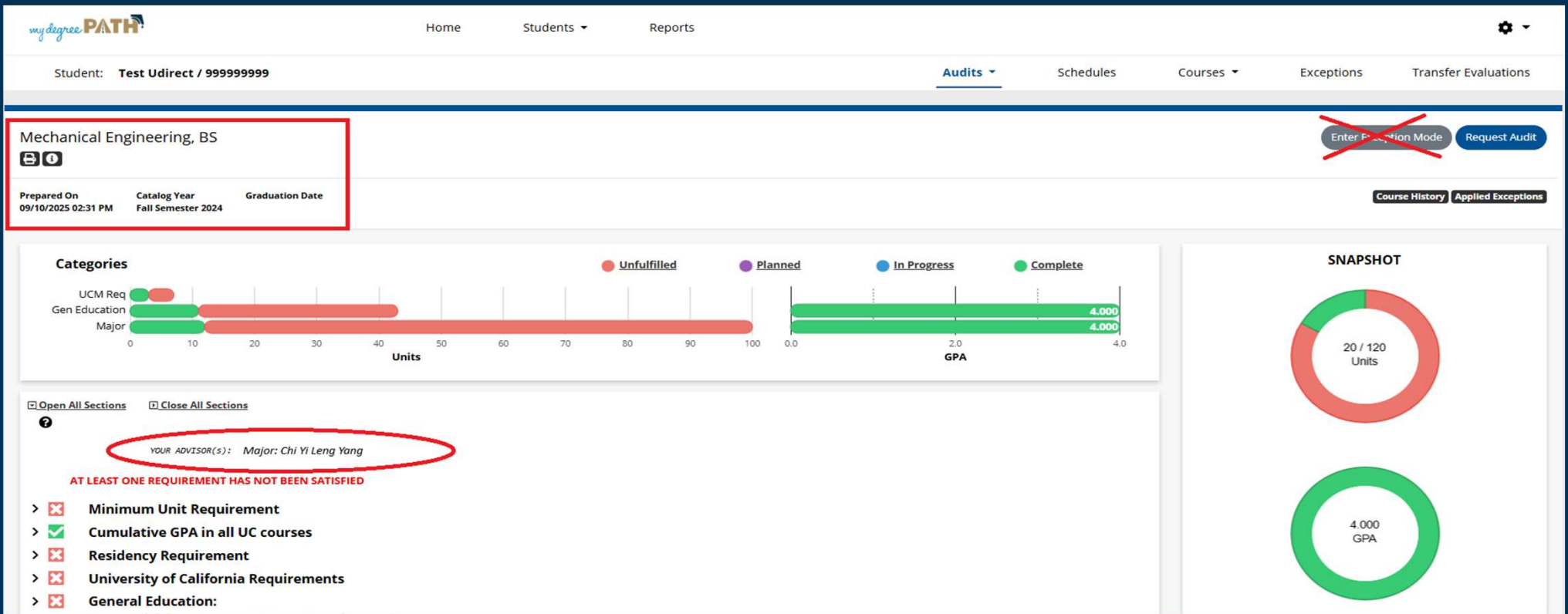
Catalog Year:Fall Semester 2024

Clear Selections

Add: ConcentrationMinor

Advanced Settings [Click to view available options.](#)

Running...Cancel



- An audit is your official student record
- Includes all of your completed, in-progress and outstanding degree requirements
- After making changes to your courses (adding/dropping) it is recommended you run an audit to see how your changes reflect on your degree audit

- MyDegreePath Requirement
- Minimum Unit Requirement
- Courses taken
- University Requirement
- General Education
 - Lower Division
 - General Upper Div.
 - GE in Soc, Lit, Media
 - GE in Life Sci, Phys
- Major Requirement
- Emphasis
- Intellectual Experiences
- Minor if you are officially declared

Open All Sections Close All Sections

YOUR ADVISOR(s):

AT LEAST ONE REQUIREMENT HAS NOT BEEN SATISFIED

Minimum Unit Requirement

EARNED: 20.0 HOURS
NEEDS: 100.0 HOURS

A minimum of 120 units is required to earn a UC Merced bachelor's degree; however, some majors have total unit requirements higher than this general minimum. Please consult your advisor and your UC Merced Catalog.

Courses must be taken for a letter grade unless the course is offered Pass/No Pass only. See your advisor if you are considering a Pass/No Pass option.

Cumulative GPA in all UC courses

EARNED: 16.0 ATTEMPTED HOURS 64.000 POINTS 4.000 GPA

Residency Requirement

NEEDS: 1 SUB-GROUP

1) 24 of your last 30 units must be completed in residence at UC Merced (17.0 HOURS TAKEN)

FA24	SPAN181	4.0	A	Latin American Cinema
FA24	MSE 128	4.0	A	
FA24	MSE 119	4.0	A	
FA23	MSE 118	4.0	A	
FA23	CE 001	1.0	P	

NEEDS: 7.0 HOURS

SELECT FROM:

University of California Requirements

EARNED: 1 SUB-GROUP
NEEDS: 1 SUB-GROUP

1) UC Entry Level Writing Requirement:
Must be completed by the end of your second semester at UC Merced with a grade of C or higher.

SELECT FROM: WRI 001

2) American History and Institutions Requirement

SU25	HIST017	3.0	TA	US Hist & CA State Local Govt MERCED: HIST 17B
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- 3) Computing Requirement
Complete the following course:
NEEDS: 1 COURSE
SELECT FROM: ME 021
- 4) Engineering Fundamentals Requirement
Complete the following courses:
NEEDS: 5 COURSES
SELECT FROM: ENGR045, 057, 130, 151, 155
- 5) Mechanical Engineering Core
Complete the following courses:
NEEDS: 10 COURSES
SELECT FROM: ENGR065, 120, 135, MATH131, ME 001, 120, 137, ME 140, ENGR193, 194
- 6) Additional Degree Requirement
Complete the following courses:
NEEDS: 2 SETS
SELECT FROM: CHEM002(SU25 OR AFTER) OR CHEM002H(SU25 OR AFTER) (AND) CHEM002L(SU25 OR AFTER)
ENGR091

✓ **ME Technical Electives**



EARNED: 1 SUB-GROUP

- ✓ 1) Mechanical Engineering Technical Electives Requirement
Complete a total of 10 hours in technical electives
from the following list.

12.0 HOURS ADDED

FA23	MSE 118	4.0	A
FA24	MSE 119	4.0	A
FA24	MSE 128	4.0	A

Note the following:

-  and  on **Audit**
- IP vs letter grade
- Non – UC transfer work
* no GPA
- Course and unit credit may not be up to date, contact us or registrar
- Official transcripts only way to update
- Official AP/IB need as well

Again, for an **Audit** report:

1. log into
myconnect.ucmerced.edu,
2. select “MyStudentRecord”
3. select “MyDegreePath”
4. **Select “RunAudit”**

Creating Grad Plans

MyDegreePath currently does not have the feature to create grad plan.

It is scheduled to return Spring 2026

- You can use grad plan template
 - <https://enr-advising.ucmerced.edu/jumpstart3>
- You can use graduation plan found on Catalog 2024-2025
 - <https://catalog.ucmerced.edu/content.php?catoid=23&navoid=2429>
- You can use the 4-year flow charts:
 - <https://enr-advising.ucmerced.edu/majors>



SCHOOL OF
ENGINEERING

Name _____

School of Engineering: Graduation Planning

Semester: Fall 2015 Semester # 5 (Example)

Course	Title	Units
MATH 032	Statistics	4 units
ME 021	Engineering Computing	4 units
ART 003B	Intermediate Painting (Arts/Humanities GE)	4 units
ENGR 045	Introduction to Materials	4 units

☐ Semester _____

Course	Title	Units

Semester _____

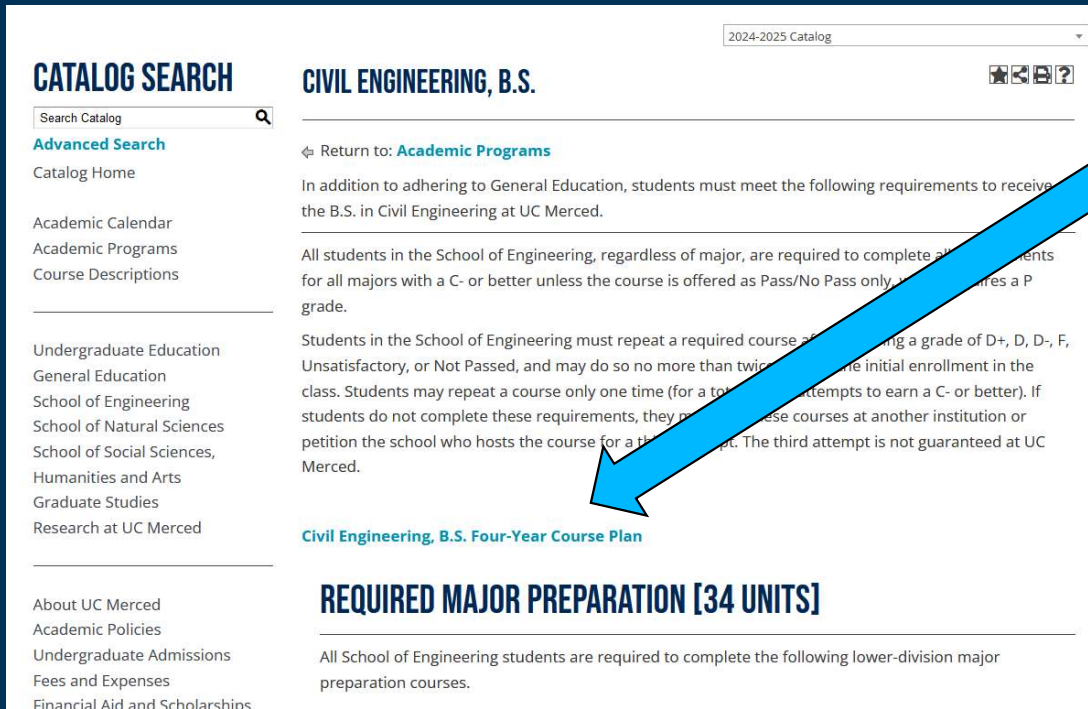
Course	Title	Units

Semester _____

Course	Title	Units

4 Year Course Plan:

<https://catalog.ucmerced.edu/content.php?catoid=24&navoid=2734>



CATALOG SEARCH

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2024-2025 Catalog

CIVIL ENGINEERING, B.S.

Return to: [Academic Programs](#)

In addition to adhering to General Education, students must meet the following requirements to receive the B.S. in Civil Engineering at UC Merced.

All students in the School of Engineering, regardless of major, are required to complete all requirements for all majors with a C- or better unless the course is offered as Pass/No Pass only. Courses with a P grade.

Students in the School of Engineering must repeat a required course after receiving a grade of D+, D, D-, F, Unsatisfactory, or Not Passed, and may do so no more than twice after initial enrollment in the class. Students may repeat a course only one time (for a total of two attempts to earn a C- or better). If students do not complete these requirements, they must complete these courses at another institution or petition the school who hosts the course for a third attempt. The third attempt is not guaranteed at UC Merced.

[Civil Engineering, B.S. Four-Year Course Plan](#)

REQUIRED MAJOR PREPARATION [34 UNITS]

All School of Engineering students are required to complete the following lower-division major preparation courses.

<https://engr-advising.ucmerced.edu/majors>

*not all catalog years may have a flow chart



Engineering Academic Advising

School of Engineering

[About](#) [Majors](#) [Policies](#) [Registration](#) [Forms](#) [Resources](#) [Placement](#) [Newsletter](#) [See My Advisor](#)

Civil Engineering

Civil Engineering

Civil engineering involves the planning, design, construction, and operation of the infrastructure systems and services that support modern civilization; it is the world's oldest engineering profession and a keystone of our society. Responsibilities of the civil engineering profession include the provision of water, power, and transportation systems, clean air and water, and planning and building new communities.

Major Requirements

Catalog Year 2024-2025

[Flow Chart - Civil Engineering, B.S.](#)

Catalog Year 2023-2024

[Flow Chart - Civil Engineering, B.S.](#)

Catalog Year 2022-2023

Majors

- GE REQ
- Bioengineering
- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Engineering and Analytics
- Electrical Engineering
- Environmental Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Undeclared Engineering

REQUIRED MAJOR PREPARATION [34 UNITS]

All School of Engineering students are required to complete the following lower-division preparation courses.

MATHEMATICS REQUIREMENT [20 UNITS]

Complete the following five courses:

- **MATH 021: Calculus I for Physical Sciences and Engineering** Units: 4
- **MATH 022: Calculus II for Physical Sciences and Engineering** Units: 4
- **MATH 023: Vector Calculus** Units: 4 or **MATH 023H: Honors Vector Calculus** Units: 4
- **MATH 024: Linear Algebra and Differential Equations** Units: 4
- **MATH 032: Probability and Statistics** Units: 4

CHEMISTRY REQUIREMENT [4 UNITS]

Complete the following course:

- **CHEM 002: General Chemistry I** Units: 4

PHYSICS REQUIREMENT [10 UNITS]

Complete the following four courses:

- **PHYS 008: Introductory Physics I for Physical Sciences** Units: 4 or **PHYS 008L: Introductory Physics I for Physical Sciences Lab** Units: 1
- **PHYS 009: Introductory Physics II for Physical Sciences** Units: 4 or **PHYS 009L: Introductory Physics II for Physical Sciences Lab** Units: 1

LOWER DIVISION MAJOR REQUIREMENTS [19 UNITS]

LOWER DIVISION CIVIL ENGINEERING REQUIREMENT [9 UNITS]

Complete the following courses:

- **CE 001: Civil Engineering Seminar** Units: 1
- **CE 010: Surveying and Geomatics Fundamentals, Equipment, Methods, and Applications** Units: 4
- **CE 020: Introduction to Civil and Environmental Engineering** Units: 4

LOWER DIVISION ENGINEERING REQUIREMENT [10 UNITS]

Complete the following courses:

- **ENGR 045: Introduction to Materials** Units: 4
- **ENGR 057: Statics and Dynamics** Units: 4
- **ENGR 091: Professional Development: People in an Engineered World** Units: 2

UPPER DIVISION MAJOR REQUIREMENTS [38-40 UNITS]

UPPER DIVISION ENGINEERING REQUIREMENT [7 UNITS]

Complete the following courses:

- **ENGR 120: Fluid Mechanics** Units: 4
- **ENGR 155: Engineering Economic Analysis** Units: 3

CIVIL ENGINEERING CORE REQUIREMENT [11-12 UNITS]

Complete three of the following courses:

- **ENVE 110: Hydrology and Climate** Units: 4
- **ENVE 160: Sustainable Energy** Units: 4
- **ENVE 176: Water and Wastewater Treatment** Units: 3
- **ENGR 180: Spatial Analysis and Modeling** Units: 4

ADDITIONAL UPPER DIVISION COURSE REQUIREMENT [14 UNITS]

Complete the following courses:

- **CE 100: Civil Engineering for Sustainable Systems** Units: 4
- **CE 120: Strength and Sustainability of Materials** Units: 4
- **CE 160: Structural Analysis** Units: 3
- **CE 193: Civil and Environmental Engineering Capstone Design** Units: 3

CIVIL ENGINEERING DESIGN ELECTIVES [6-7 UNITS]

Complete two of the following courses:

ENVIRONMENTAL DESIGN ELECTIVES

- **ENVE 132: Air Pollution Control** Units: 3
- **ENVE 162: Modeling and Design of Energy Systems** Units: 3
- **ENVE 170: Contaminant Fate and Transport** Units: 3

HYDROLOGY DESIGN ELECTIVES

- **ENVE 140: Water Resources Planning and Management** Units: 3

GEOMATICS DESIGN ELECTIVES

- **ENVE 152: Remote Sensing of the Environment** Units: 4

SUSTAINABLE STRUCTURES DESIGN ELECTIVES

- **CE 180: Concrete Structural Design** Units: 3

Civil Engineering: Catalog

Slide 14

CY1

You can change the major to your respective case load

Chi Yi Leng Yang, 2025-09-10T22:14:48.033

TIPS for CE Major

Plan ahead as some are offered Fall or Spring only (i.e. CEE 160 historically Spring only)

First Year	
Fall	Spring
MATH 021: Calculus I for Physical Sciences and Engineering	MATH 022: Calculus II for Physical Sciences and Engineering
PHYS 008: Introductory Physics I for Physical Sciences and PHYS 008L	PHYS 009: Introductory Physics II for Physical Sciences and PHYS 009L
SPRK 010: Spark Seminar	CEE 010: Surveying and Geomatics Fundamentals, Equipment, Methods, and Applications
CHEM 002: General Chemistry I and CHEM 002L	ENGR 091: Professional Development: People in an Engineered World
CEE 001: Civil Engineering Seminar	
Second Year	
Fall	Spring
MATH 023: Vector Calculus	MATH 024: Linear Algebra and Differential Equations
ENGR 045: Introduction to Materials	ENGR 120: Fluid Mechanics
ENGR 057: Statics and Dynamics	MATH 032: Probability and Statistics
WRI 010: College Reading and Composition	CEE 020: Introduction to Civil and Environmental Engineering
Third Year	
Fall	Spring
CEE 120: Strength and Sustainability of Materials	Major Civil Engineering Core Requirement
Major Civil Engineering Core Requirement	CEE 165: Structural Analysis
ENGR 155: Engineering Economic Analysis	General Education: Area B--Approaches to Knowledge Social Science, Literary and Textual Analysis, Media and Visual Analysis, Societies and Cultures of the Past
CEE 100: Civil Engineering for Sustainable Systems	General Education: Area A--Life Science
Fourth Year	
Fall	Spring
General Education: Area B--Approaches to Knowledge Social Science, Literary and Textual Analysis, Media and Visual Analysis, Societies and Cultures of the Past	Major Civil Engineering Design Elective
General Education: Lower Division Language	CEE 193: Civil and Environmental Engineering Capstone Design
Major Civil Engineering Core Requirement	General Education: Area B--Approaches to Knowledge Social Science, Literary and Textual Analysis, Media and Visual Analysis, Societies and Cultures of the Past
Major Civil Engineering Design Elective	Free Elective

Design Elective – make sure you plan early to meet prerequisites for the courses you’re interested in, several to choose from

CEE 193 – share capstone course for both CE and ENVE majors; understand your major prereqs and complete all prereqs prior to taking this course

TIPS for ENVE Major

Plan early for Environmental Systems Science & Biology/Ecology TE courses; some are offered Fall or Spring only

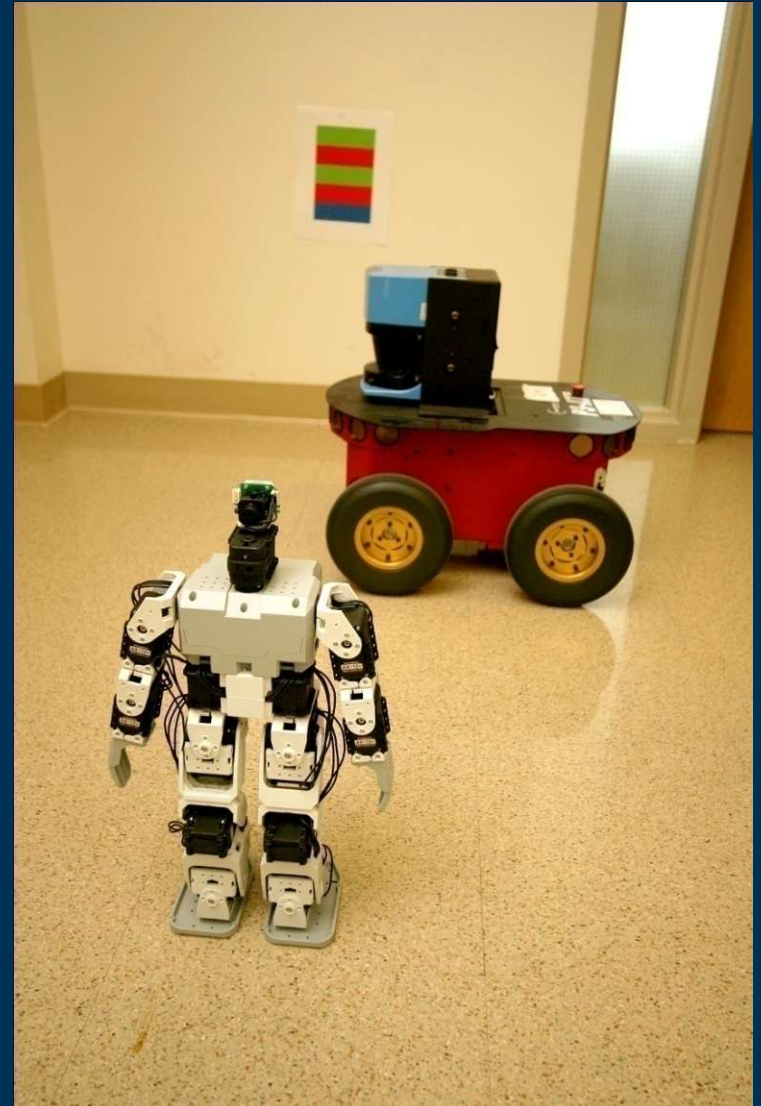
Pay attention to *recommended* notation

First Year	
Fall	Spring
MATH 021: Calculus I for Physical Sciences and Engineering	MATH 022: Calculus II for Physical Sciences and Engineering
PHYS 008: Introductory Physics I for Physical Sciences and PHYS 008L	PHYS 009: Introductory Physics II for Physical Sciences and PHYS 009L
CHEM 002: General Chemistry I and CHEM 002L	CHEM 010: General Chemistry II and CHEM 010L
SPRK 010: Spark Seminar or SPRK 001: Spark Seminar	ENGR 091: Professional Development: People in an Engineered World
Second Year	
Fall	Spring
MATH 023: Vector Calculus	MATH 024: Linear Algebra and Differential Equations
ENGR 057: Statics and Dynamics	CEE 020: Introduction to Civil and Environmental Engineering
Major Computing Requirement	MATH 032: Probability and Statistics
WRI 010: College Reading and Composition	Major BIO/ESS Requirement
CEE 001: Civil Engineering Seminar	
Third Year	
Fall	Spring
ENGR 120: Fluid Mechanics	CEE 105: Environmental Engineering Chemistry
General Education: Area B—Approaches to Knowledge Social Science, Literary and Textual Analysis, Media and Visual Analysis, Societies and Cultures of the Past	CEE 160: Sustainable Energy
Major Engineering Fundamentals Requirement	ENGR 155: Engineering Economic Analysis
Major Biology/Ecology Technical Elective	Major Engineering Fundamentals Requirement
Fourth Year	
Fall	Spring
CEE 110: Engineering Hydrology	Major Field Methods Technical Elective
CEE 130: Meteorology and Air Pollution	Major Environmental Systems Sciences Technical Elective
Major Technical Elective (ENGR 180)	General Education: Area B—Approaches to Knowledge Social Science, Literary and Textual Analysis, Media and Visual Analysis, Societies and Cultures of the Past
Major Technical Elective	General Education: Area B—Approaches to Knowledge Social Science, Literary and Textual Analysis, Media and Visual Analysis, Societies and Cultures of the Past
	CEE 193: Civil and Environmental Engineering Capstone Design

BIO/ESS Requirement – ESS 001 is recommended. Will allow you to meet prerequisites for a lot more upper div ESS technical electives.

Things to Remember

- Courses and their requirements can and do change (pre-reqs), so make sure you communicate with your advisor regularly and check for SOEADVISING@UCMERCED.EDU emails
- *Full-Time Status:* Students must enroll in at least 12 units each semester
- *Journey to 30:* Students must enroll in 15 units in a semester to meet graduation on time



Normal Progress Policy

Student progress is reviewed every Fall term by the School of Engineering. If a student is not meeting the normal progress standard, the school may place a hold on the student's academic record, which can prevent registration for future terms.

Normal progress includes:

- Maintaining good academic standing**
- Successfully completing required coursework**
- Enrolling in course(s) needed to complete their degree**
- Enrolling in the appropriate number of credits**

Taking a Class During Summer

- Taking Classes at UC Merced
 - Enroll in at least 6 units to apply for summer fin aid
- Taking classes at another institution
 - Make sure course is equivalent to UC Merced course by using transferology.com or ASSIST
 - Apply and enroll in course

Send screen shot to academic advisor and ask for temporary override for Fall Courses

Transferology → Will My Courses Transfer? ← Find a Replacement Course **karia**

+ Courses (1) + Matches (0) ★ Favorites (0)

← Find a Replacement Course

Search for courses to complete at another school that you can transfer back to your current institution. Planning to go to a new school? Search [Will My Courses Transfer?](#) to see how your credits may apply.

School You Currently Attend: University Of California-Merced

Start Over

Courses

University Of California-Merced

ANTH003 INTRODUCTION TO ANTHROPOLOGICAL ARCHAEOLOGY Spring '23 4

Search for Matches

Term: Spring 2023

Department:

Enter department abbreviation (e.g. ENG1)

Don't see your course listed? [Add it yourself.](#)

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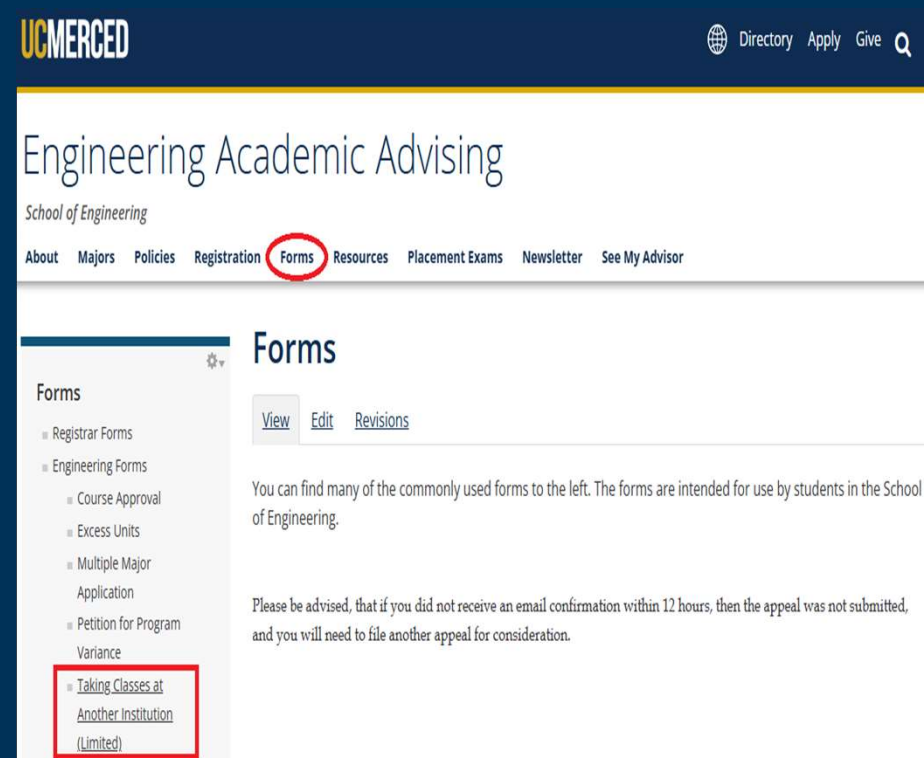
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Transferology Version: 19.4.2, Build: TRNS-SPROD14-JOB1-7 02/13/2023 10:15 AM
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Can I Take a Course Outside of UC Merced? Fall/Spring

You have to ask for permission before enrolling...or you won't get credit...

- You can take a course through
 - UC Online
 - Merced College (Intersegmental Cross Enrollment Program)
 - any other Community College
- You must be enrolled in 12 units already at UC Merced
- Requirement: “Taking Classes at Another Institution” form through our website.



We will not know you are enrolled unless you fill out the form and ask us for temporary overrides to enroll in next term courses

Take a Course Outside UC Merced

- All Temporary overrides are removed the Monday before the semester begins
 - This date is about 2 weeks before courses start

Make sure to send me proof of passing course to advisor as soon as available.

Can I change my major, add a Minor or Double Major?

Policies: <https://enr-advising.ucmerced.edu/policies/declaration-major>

- Yes, you can do this now...

There are some majors in which you can't double major

Example: ME and MSE

Double major: only 12 units can be shared

Minor: only 4 units can be shared

How to Declare?

Go to the Office of the Registrar website – Forms

JumpStart 3rd year

- Attend/view one workshop hosted by the School of Engineering (this one)
- Attend one career-related event
- Complete the webform where you will:
 - Answer questions related to career event
 - Answer questions related to this presentation
 - Plan courses two terms [Fall/Spring] graduation plan. (Summer is optional)

QUESTIONS?