

Transfer Student MAE Major Curricula

The following is a recommended course sequence of required courses for transfer students. Updated June 2017.

AEROSPACE ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 2-Intro to Aerospace	Math 20E	Pending MAE materials course (formerly SE 2/L)
MAE 3- Graphics and Design	MAE 130A- Statics	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	GE	MAE 130B- Dynamics
GE (College requirement)	GE	GE
Year 2		
MAE 105- Mathematical Physics	MAE 101A- Intro to Fluids	MAE 101B- Advance Fluids
MAE 107- Computational Methods	MAE 143A- Signals and Systems	MAE 143B- Linear Control
MAE 110A- Thermodynamics	MAE 130C- Vibrations	MAE 170- Experimental Technique
MAE 140- Linear Circuits	SE 160A*	SE 160B
Year 3		
MAE 101C- Heat Transfer	MAE 155A- Aerospace Design	MAE 155B- Aeronautics Design
MAE 150- Computer-Aid Design	MAE 175A- Engineering Lab	GE
MAE 104- Aerodynamics	MAE 142- Dynamics and Controls	GE
GE	MAE 113- Propulsion	TE (Technical Elective)

MECHANICAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 3- Graphics and Design	Math 20E	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	MAE 130A*- Statics	MAE 130B- Dynamics
MAE 20- Materials Science	GE	MAE 108 - Statistics
GE (College requirement)	GE	GE
Year 2		
MAE 105- Mathematical Physics	MAE 101A- Intro to Fluids	MAE 101B- Advance Fluids
MAE 110A- Thermodynamics	MAE 143A- Signals and Systems	MAE 143B- Linear Control
MAE 140- Linear Circuits	MAE 130C- Vibrations	MAE 170- Experimental Technique
MAE 107- Computational Methods	MAE 160 or MAE 131B	GE
Year 3		
MAE 101C- Heat Transfer	MAE 156A- Design Lab I	MAE 156B- Design Lab II
MAE 150- Computer-Aid Design	MAE 171A- Engineering Lab I	TE
TE (Technical Elective)	TE	TE
GE	GE	GE

This academic plan assumes that you have completed all of the following courses at your previous college:

Calculus I for Science and Engineering (MATH 20A), Calculus II for Science and Engineering (MATH 20B), Calculus and Analytic Geometry (MATH 20C), Differential Equations (MATH 20D), Linear Algebra [MATH 18 (formerly 20F)], Complete calculus-based physics series (PHYS 2A, B, C, & CL), and general chemistry (CHEM 6A for Aero; CHEM 6A & B for Mech).

If you have not completed all the courses listed above, this plan is not suitable for you.

Please come and speak to an academic advisor as soon as possible to plan accordingly.

Transfer Student MAE Major Curricula

The following is a recommended course sequence of required courses for transfer students. Updated June 2017.

ENVIRONMENTAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
ESYS 101- Environmental Bio	Math 20E	MAE 108 - Statistics
MAE 8- Intro. To MatLab	MAE 130A- Statics	MAE 124- Environmental Engineering Policy
MAE 3-Graphics and Design	GE	GE
GE (College requirement)	GE	GE
Year 2		
MAE 105- Mathematical Physics	MAE 101A- Intro to Fluids	MAE 101B- Advance Fluids
MAE 107- Computational Methods	MAE 119- Renewable Engery	MAE 170- Experimental Technique
CENG 100- Modeling and Computations	MAE 110A- Thermodynamics	TE (Technical Elective)
CHEM 171 - Env. Chem	GE	GE
Year 3		
MAE 101C- Heat Transfer	MAE 123- Fluid-Solid Interaction	MAE 126B- Engineering Lab
MAE 122- Flow and Transport	MAE 126A- Engineering Lab	TE
TE	TE	TE
GE	GE	GE

HOW TO PETITION TRANSFER COURSEWORK FOR MAE COURSE EQUIVALENCY

If you took an engineering course at your transfer institution, then you will need to petition for equivalency of this course with a particular MAE course. For the MAE Department, a course substitution petition must be submitted through the MAE Undergraduate Online Petition Portal:

1. Select which MAE course you are requesting to substitute.
2. Enter the college, course, term, and grade for the transfer course.
3. For the "Petition Reasons" field, you may enter "Courses are similar in content."
4. **You then must attach your coursework for the transfer course (e.g., detailed syllabus, quizzes, exams, etc.).**

Your petition will be reviewed by an MAE faculty member, who might require more information from you in order to make a decision. It's not guaranteed that they will be able to judge whether or not a transfer course is equivalent to an MAE course if you aren't able to provide sufficient coursework.

We cannot update your degree audit to reflect an approved substitution until your official transcripts are processed by UCSD. If your transfer grades are still being processed and you need to enroll in an MAE course that requires the transfer course as a prerequisite, then you can email your unofficial transcript to MAE Advising (mae-ugrad@eng.ucsd.edu) to show that you passed the prerequisite and we will clear you to enroll in the MAE course.

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