

MAE Transfer Students

Three Year Plans, FA19 Catalog

The following is a recommended sequence of required courses for transfer students. Updated June 2019

AEROSPACE ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 2- Intro to Aerospace	Math 20E	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	MAE 30A- Kinematics	MAE 30B- Dynamics & Vibrations
MAE 21-Aerospace Materials Science	GE (College requirement)	GE
	GE	GE
Year 2		
MAE 11-Thermodynamics	MAE 101A- Intro to Fluids	MAE 101B- Advance Fluids
MAE 105- Mathematical Physics	MAE 143A- Signals and Systems	MAE 143B- Linear Control
MAE 107- Computational Methods	TE (Technical Elective)	MAE 170- Experimental Technique
MAE 180A- Spacecraft Guidance	SE 160A- Aerospace Structural Mechanics I	SE 160B- Aerospace Structural Mechanics II
Year 3		
MAE 101C- Heat Transfer	MAE 155A- Aerospace Design	MAE 155B- Aeronautics Design
MAE 104- Aerodynamics	MAE 175A- Engineering Lab	GE
GE	MAE 142- Dynamics and Controls	GE
GE	MAE 113- Propulsion	TE

MECHANICAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 3- Graphics and Design	Math 20E	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	MAE 30A- Kinematics	MAE 30B- Dynamics & Vibrations
MAE 20- Materials Science	GE (College requirement)	TE (Technical Elective)
	GE	GE
Year 2		
MAE 11-Thermodynamics <i>(formerly MAE 110A)</i>	MAE 101A- Intro to Fluids	MAE 101B- Advance Fluids
MAE 105- Mathematical Physics	MAE 143A- Signals and Systems	MAE 143B- Linear Control
MAE 107- Computational Methods	TE	MAE 170- Experimental Technique
MAE 40- Linear Circuits	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	GE
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), Complete calculus-based physics series (PHYS 2A, B, C), and general chemistry (CHEM 6A for Mech and Aero; CHEM 6A, B, C for Env)

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.

MAE Transfer Students

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ENVIRONMENTAL ENGINEERING		
FALL	WINTER	SPRING
Year 1		
ESYS 101- Environmental Bio	Math 20E	MAE 108 - Statistics
MAE 8- Intro. To MatLab	MAE 30A- Kinematics	MAE 30B- Dynamics & Vibrations
MAE 3- Graphics and Design	GE (College requirement)	GE
	GE	GE
Year 2		
CHEM 171- Environ. Chem	MAE 11- Thermodynamics <i>(formerly MAE 110A)</i>	MAE 101B- Advance Fluids
MAE 105- Mathematical Physics	MAE 101A- Intro to Fluids	MAE 170- Experimental Technique
MAE 107- Computational Methods	MAE 119- Renewable Energy	TE (Technical Elective)
CENG 100- Material and Energy Balances	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	GE
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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