

Transfer Student MAE Major Curriculums

The following is a recommended course sequence of required courses for Transfer Students. Updated June 2015

AEROSPACE ENGINEERING		
FALL	WINTER	SPRING
Year 1		
MAE 2-Intro to Aerospace	Math 20E	Structural Engineering (SE) 2/2L
MAE 3- Graphics and Design	MAE 130A*- Statics	MAE 131A- Solid Mechanics
MAE 8- Intro. To MatLab	HSS	MAE 130B- Dynamics
HSS (College requirement)	HSS	HSS
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	HSS
MAE 104*- Aerodynamics	MAE 142*- Dynamics and Controls	HSS
HSS	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 130A*- Statics	MAE 130B- Dynamics
MAE 20- Materials Science	HSS	MAE 108 - Statistics
HSS	HSS	HSS
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	HSS
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	TE	TE
HSS	HSS	HSS

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 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 Curriculums

The following is a recommended course sequence of required courses for Transfer Students. Updated June 2015

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	HSS	HSS
HSS	HSS	HSS
Year 2		
CHEM 171- Environ. Chem	MAE 101A*- Intro to Fluids	MAE 101B*- Advance Fluids
MAE 105- Mathematical Physics	MAE 119- Renewable Engery	MAE 170- Experimental Technique
MAE 107- Computational Methods	MAE 110A- Thermodynamics	TE
CENG 100- Modeling and Computations	HSS	HSS
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
HSS	HSS	HSS

HOW TO PETITION TRANSFER COURSEWORK FOR MAE COURSE EQUIVALENCY.

Some engineering courses from a community college/University do not transfer.

Course Equivalencies:

Lower/Upper division course work:

1. **Check** to make sure that the transfer course is listed on your UCSD Academic History.
2. **Check with Assist.org** to see if a course equivalency already exists for your course work. If so, you will not need to petition, just let the advisors know.
3. **Submit the petition including the UCSD course number** for which you think your course work is equivalent
4. **Provide documentation of course work:** a detailed syllabus, title of textbook, lecture notes, and exams

Your completed petition will be reviewed by an MAE faculty member for equivalency. If it is determined to be equivalent, you will be notified via your UCSD email account and your Degree Audit will be updated to reflect equivalency. You will encounter registration problems as the computer registration system will not recognize the course equivalency, even after your Degree Audit has been updated.

If your equivalent course is a pre-requisite, please contact the MAE Student Affairs Office to be cleared in the registration system **a few days BEFORE your registration time**. **DON'T WAIT UNTIL YOUR REGISTRATION DATE AS YOU MAY END UP ON A WAIT LIST!**

Undergraduate Petitions can be found here:

<http://registrar.ucsd.edu/forms/UNstudentpetition.pdf>

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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.