ENVIRONMENTAL ENGINEERING Four Year Plan, 2014-2016 Catalogs

mae.ucsd.edu

The newly founded Environmental Engineering program within the Department of Mechanical and Aerospace Engineering (MAE) at UCSD is a modern interpretation of this rapidly changing field. Unlike the classical environmental engineering topics (e.g. water sanitation, brownfield remediation) many new environmental engineering and sustainability challenges require strong quantitative skills. Renewable energy technologies require skills in material science and physics, climate change research requires individuals trained in fluid mechanics and environmental transport and sustainable building design requires deep knowledge of heat and mass transfer in complex geometries.

Recommended Course Sequence of Required Courses: Updated May 2018

FALL QUARTER	WINTER QUARTER	SPRING QUARTER
Year 1		
Math 20A*	Math 20B*	Math 20C*
Chem 6A*	Phys 2A*	Phys 2B*
GE (General Education)	Chem 6B*	Chem 6C
GE	GE	Chem 7L
Year 2		
Math 20D	Math 18* (formerly 20F)	Math 20E
ESYS 101	MAE 130A	MAE 108 ¹
Phys. 2C & 2CL	MAE 8	MAE 124
MAE 3	GE	GE
Year 3		
CENG 100	MAE 101A*	MAE 101B*
MAE 105	MAE 11 (formerly 110A*)	MAE 170
MAE 107	MAE 119	TE (Technical Elective)
GE	CHEM 171	GE
Year 4		
MAE 101C*	MAE 126A*	MAE 126B*
MAE 122* (formerly 125A)	MAE 123* (formerly 125B)	TE
TE	TE	TE
GE	GE	GE

WHEN SCHEDULING CLASSES, **THE MAE DEPARTMENT FOLLOWS THIS CURRICULUM GRID**.

DEVIATION FROM THIS ACADEMIC PLAN COULD DELAY YOUR GRADUATION. IT IS YOUR
RESPONSIBILITY TO BE AWARE OF COURSE PREREQUISITES AND QUARTERLY COURSE OFFERINGS.

- 1. MAE 108 can be replaced with one of the following courses: Math 183, ECE 109, or SE 125. Credit not offered for MAE 108 if ECE 109, ECON 120A, MATH 180A, MATH 183, MATH 186, or SE 125 were previously or concurrently taken. Please check with the MAE advisers for more information.
- All courses required for the major must be taken for a letter grade. The Pass/No Pass grading option is not allowed.
- Chem 6AH, 6BH and 6CH may be taken in place of Chem 6A, 6B and 6C.
- In fulfilling the General Education (GE) requirements, students must take at least 24 units in the arts, humanities, and social sciences, not including subjects such as accounting, industrial management, finance, or personnel administration. Ten GE courses are listed here; individual college requirements may be higher or lower.
- Five Technical Elective (TE) courses are required to receive a degree in Environmental Engineering: at least 1 must be an upper-division, Scripps Institute of Oceanography (SIO) lecture course. Refer to the list of pre-approved TEs available at the MAE Advising Office and mae.ucsd.edu.

^{*} ASTERISK DENOTES A COURSE THAT MUST BE TAKEN BY THAT QUARTER TO GRADUATE IN FOUR YEARS.