

AEROSPACE ENGINEERING TECHNICAL ELECTIVES

- Aerospace Engineering majors following the Fall 2019 catalog must complete two TE's.
- Aerospace Engineering majors following a pre-Fall 2019 catalog must complete one TE

*-Not all courses are offered each year/quarter.
-All prerequisites are enforced.*

The following classes that are not already required for your major are approved as TEs:

MAE 101D	Intermediate Heat Transfer
MAE 108	Probability and Statistical Methods
MAE 110	Thermodynamic Systems (<i>formerly 110B</i>)
MAE 118	Intro to Energy & Environment
MAE 119	Intro to Renewable Energy: Solar & Wind
MAE 120	Intro to Nuclear Energy
MAE 122	Flow & Transport in the Environment
MAE 130	Advanced Vibrations (<i>only for students following the FA19 catalog</i>)
MAE 131B	Solid Mechanics II
MAE 133	Finite Element Methods
MAE 144	Embedded Control and Robotics
MAE 146	Introduction to ML Algorithms
MAE 145	Robotic Planning and Estimation
MAE 148	Intro to Autonomous Vehicles
MAE 149	Sensor Networks
MAE 150	Computer-Aided Design (<i>only for students following the FA17, FA19 catalogs</i>)
MAE 154	Product Design & Entrepreneurship
MAE 181	Space Mission Analysis and Design
MAE 184	Flight Simulation Techniques
MAE 190	Design of Machine Elements (<i>Note: Must be this specific course topic</i>)
MAE 199	Independent Study (<i>2 quarters of MAE 199 can be used for 1 TE under certain circumstances. See our website, mae.ucsd.edu, for details.</i>)
SE 120	Engineering Graphics and Computer-Aided Structural Design
SE 131	Finite Element Analysis
SE 142	Design of Composite Structures
SE 143A	Aerospace Structural Design I
SE 143B	Aerospace Structural Design II
SE 163	Nondestructive Evaluation
SE 171	Aerospace Structures Repair
ECE 120	Solar System Physics
ECE 172A	Introduction to Intelligent Systems
MATH 102	Applied Linear Algebra
MATH 120A	Elements of Complex Analysis
MATH 175	Numerical Methods for Partial Differential Equations
MATH 187A	Intro to Cryptography

MAE 160 is not an approved TE due to overlapping material in SE 160A/B.

GRADUATE COURSES*

MAE 200	Controls
MAE 201	Mechanics of Fluids
MAE 202	Thermal Processes
MAE 203	Solid Mechanics and Materials
MAE 204	Robotics
MAE 206	Energy Systems
MAE 208	Mathematics for Engineers
MAE 211	Intro to Combustion
MAE 212	Introductory Compressible Flow
SE 201A	Advanced Structural Analysis
SE 202	Structural Stability
SE 203	Structural Dynamics

* Enrollment in graduate courses requires approval by the instructor and course dept via an EASy request.

All TEs must be taken for a letter grade. No P/NP grades allowed except in MAE 199.

For information about receiving TE credit for courses not on this list, please contact a
MAE undergraduate advisor: mae-ugradadm@eng.ucsd.edu