AEROSPACE ENGINEERING
TECHNICAL ELECTIVES

Aerospace Engineering majors are required to 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 110  Thermodynamic Systems (formerly 110B)
MAE 118  Intro to Energy Systems
MAE 119  Intro to Renewable Energy: Solar & Wind
MAE 120  Intro to Nuclear Energy
MAE 133  Finite Element Methods
MAE 119  Intro to Renewable Energy: Solar & Wind
MAE 131B  Solid Mechanics II
MAE 131C  Solid Mechanics III
MAE 140  Linear Circuits (only for students following the FA17 catalog)
MAE 144  Embedded Control and Robotics
MAE 145  Intro to Robotic Planning and Estimation
MAE 149  Sensor Networks
MAE 150  Computer-Aided Design (only for students following the FA17 catalog)
MAE 180A  Spacecraft Guidance I (only for students following a pre-FA17 catalog)
MAE 181  Space Mission Analysis and Design
MAE 199  Independent Study (2 quarters of MAE 199 can be used for 1 TE under certain circumstances. See our website, mae.ucsd.edu, for details.)
SE 131  Finite Element Analysis
SE 142  Design of Composite Structures
SE 163  Nondestructive Evaluation

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

GRADUATE COURSES:*

MAE 207  Topics in Engineering Science
MAE 210A  Fluid Mechanics I (graduate level)
MAE 211  Intro to Combustion
MAE 212  Introductory Compressible Flow
MAE 213  Mechanics of Propulsion
MAE 220A  Physics of Gases
MAE 221A  Heat Transfer (graduate level)
MAE 280A  Linear Systems Theory
SE 201A  Advanced Structural Analysis
SE 202  Structural Stability
SE 203  Structural Dynamics
SE 204  Advanced Structural Dynamics
SE 205  Nonlinear Mechanical Vibrations
SE 207  Topics in Structural Engineering
SE 252  Experimental Mechanics and NDE
SE 253A  Mechanics of Laminated Composite Structures I

* Enrollment in graduate courses requires approval by the instructor and course dept.

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

If you enroll in a course on this list and it is not shown on your degree audit, please notify an MAE undergraduate advisor.

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