

Plan of Study for Mechanical Engineering Concentration

Core Courses: [All are 3 Credits]

- [MEE 150 - Applied Mechanics: Statics](#)
- [MEE 230 - Thermodynamics I](#)
- [MEE 251 - Strength of Materials](#)
- [MEE 270 - Applied Mechanics: Dynamics](#)

Following the initial four courses, students can choose twelve credits of more advanced classes, focused in a technical area that they find interesting. Examples of these technical areas and courses that can be taken to satisfy the advanced course requirements in each area include:

- Energy Systems – MEE 360 Fluid Mechanics
MEE 432 Heat Transfer
MEE 433 Solar Thermal Engineering
MEE 462 Fluid Mechanics II
MEE 483 Design of Turbomachinery
MEE 484 Power Plant Design (Prerequisite: MEE 231)
- Mechanical Design – MEE 320 Materials Engineering and Science
MEE 450 Intro Mechanics of Comp Materials
MEE 455 Adv Strength of Materials
MEE 471 Mechanical Vibrations
- Dynamics and Control – MEE 370 Modeling, Analysis and Control of Mech Systems
MEE 445 Aeronautics
- Aerodynamics – MEE 360 Fluid Mechanics
MEE 462 Fluid Mechanics II
MEE 455 Aeronautics (a prerequisite is COS 215/220)
MEE 446 Astronautics
- Mechanical Robotics – MEE 380 Design I
MEE 381 Design II
MEE 370 Modeling, Analysis and Control of Mech Systems
MEE 444 Robot Dynamics and Control

Optional Courses: [All are 3 Credits]

- [MEE 320 - Materials Engineering and Science](#)
- [MEE 360 - Fluid Mechanics](#)
- [MEE 370 - Modeling, Anal. Ctrl. of Mech Sys](#)
- [MEE 380 – Design I](#)
- [MEE 381 - Design II](#)
- [MEE 432 - Heat Transfer](#)
- [MEE 433 - Solar-Thermal Engineering](#)
- [MEE 444 – Robot Dynamics and Control](#)
- [MEE 445 - Aeronautics](#)
- [MEE 446 - Astronautics](#)
- [MEE 450 - Intro to Mech. of Comp Materials](#)
- [MEE 455 - Advanced Strength of Materials](#)
- [MEE 456 - Intro to Finite Element Method](#)
- [MEE 462 - Fluid Mechanics II](#)
- [MEE 471 - Mechanical Vibrations](#)
- [MEE 483 - Turbomachine Design](#)
- [MEE 484 - Power Plant Design and Engineering](#)