UNDERGRADUATE PROGRAM MAP

PURDUE UNIVERSITY | Mechanical Engineering

Semesters 1 & 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 8

Prerequisite previous class must be taken first

Corequisite classes can be taken at the same time

MEundergrad@purdue.edu

Updated March 2025

MATH

- Calculus I, MA 16500
- Calculus II, MA 16600
- Multivariate Calculus, MA 26100
- Ordinary Differential Eqs, MA 26600
- Data Science, ME 23900
- Linear Algebra, MA 26500

CONTROLS

- Electricity & Optics, PHYS 24100 or PHYS 27200 LAB
- Electrical Engr Fundamentals I, ECE 20001
- ECE 20007 LAB
- Controls I, ME 36500 LAB
- Controls II, ME 37500 LAB

MECHANICS

- Modern Mechanics, PHYS 17200
- Statics, ME 27000
- Dynamics, ME 27400
- Mechanics of Materials, ME 32300
- ME 32301 LAB
- Machine Design, ME 35400
- Structure & Props of Materials, MSE 23000

ENERGY

- General Chemistry, CHM 11510
- CHM11520/30 LAB
- Thermodynamics I, ME 20000
- Fluid Mechanics, ME 30800
- ME 30801 LAB
- Heat & Mass Transfer, ME 31500 LAB

DESIGN

- Graphical Communication, MFET 16300 / ME 16400
- Intro to Manufacturing for Design, ME 26400
- Systematic Engineering Design, ME 36400
- Capstone Engineering Design, ME 46300

ME / TECH

- Ideas to Innovation, ENGR 13100 & ENGR 13200 *or ENGR 130 / EPICS / HONORS / VIP*
- ME Seminar, ME 29000 *Must be accepted into ME*
- ME Elective
- ME Elective

ELECTIVES

- Oral Comm Elective
- Written Comm Elective
- FYE Selective
- Gen Ed Elective
- Technical Elective
- Technical Elective
- Technical Elective
- Gen Ed Elective
- Gen Ed Elective
- Gen Ed Elective
- Gen Ed Elective
- Economics Elective
- Humanities Elective
- Free Elective