# UNDERGRADUATE PROGRAM MAP

PURDUE UNIVERSITY | Mechanical Engineering

Prerequisite *previous class must be taken first*
Corequisite *classes can be taken at the same time*

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*Updated March 2025*

| | Semesters 1 & 2 | | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 |
|---|---|---|---|---|---|---|---|---|
| MATH | Calculus I MA 16500 | Calculus II MA 16600 | Multivariate Calculus MA 26100 | Ordinary Differential Eqs MA 26600 | Linear Algebra MA 26500 | | | |
| | | | | Data Science ME 23900 | | | | |
| CONTROLS | | | Electricity & Optics PHYS 24100 or PHYS 27200 LAB | Electrical Engr Fundamentals I ECE 20001 | Controls I ME 36500 LAB | Controls II ME 37500 LAB | | |
| | | | | ECE 20007 LAB | | | | |
| MECHANICS | Modern Mechanics PHYS 17200 | | Statics ME 27000 | Dynamics ME 27400 | Mechanics of Materials ME 32300 | Machine Design ME 35400 | Structure & Props of Materials MSE 23000 | |
| | | | | | ME 32301 LAB | | | |
| ENERGY | General Chemistry CHM 11510 | | Thermodynamics I ME 20000 | | Fluid Mechanics ME 30800 | ME 30801 LAB | Heat & Mass Transfer ME 31500 LAB | |
| | CHM11520/30 LAB | | | | | | | |
| DESIGN | | | Graphical Communication MFET 16300 / ME 16400 | Intro to Manufacturing for Design ME 26400 | | Systematic Engineering Design ME 36400 | | Capstone Engineering Design ME 46400 |
| 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 |
| | | | | | Technical Elective | Technical Elective | | Technical Elective |
| ELECTIVES | Oral Comm Elective | | | | | | | |
| | Written Comm Elective | | | | Gen Ed Elective | Gen Ed Elective | Gen Ed Elective | Gen Ed Elective |
| | Science Selective | | | | Economics Elective | Humanities Elective | | Free Elective |