

Mechanical Engineering Undergraduate Curriculum

Freshman Year:

Fall	Spring
GEP or GFR (3cr) CHEM101 – Chemistry I (4cr) MATH151 – Calculus I (4cr) ENES101 – Intro. to Engineering Science (3cr) ENGL100 – English Composition (3cr)	CHEM102 – Chemistry II (4cr) CHEM102L – Chemistry II Lab (2cr) MATH152 – Calculus II (4cr) ENME110 – Statics (3cr) PHYS121 – Physics I (4cr)

Sophomore Year:

Fall	Spring
GEP or GFR (3cr) MATH251 – Multivariate Calculus (4cr) STAT355 – Statistics for Scientists and Engineers (4cr) ENME220 – Mechanics of Materials (3cr) PHYS122 – Physics II (4cr)	ENME221 – Dynamics (3cr) MATH225 – Differential Equations (3cr) ENME217 – Engineering Thermodynamics ENME204 – Introduction to Engineering Design with CAD (3cr) PHIL251 – Ethical Issues in Science/Engineering (3cr)

Junior Year:

Fall	Spring
GEP or GFR (3cr) ENME301 – Structure and Properties of Engineering Materials (3cr) ENME303 – Topics in Engineering Mathematics (3cr) ENME320 – Fluid Mechanics (3cr) CMPE306 – Introductory Circuit Theory * (4cr)	GEP or GFR (3cr) ENME304 – Machine Design (3cr) ENME321 – Transfer Processes (3cr) ENME332L – Solid Mechanics and Materials Laboratory (3cr) ENME360 – Vibrations (3cr)

* Formerly ENEE302

Senior Year:

Fall	Spring
GEP or GFR (6cr) ENME403 – Automatic Controls (3cr) ENME432L – Fluids and Energy Laboratory (2cr) ENME4XX – Technical Elective (3cr) Science/Technical Elective** (3cr)	GEP or GFR (7cr) ENME482L – Vibrations and Controls Laboratory (2cr) ENME444 – Mechanical Engineering Systems Design (3cr) ENME4xx – Design Elective (3cr)

** Approved courses outside of Mechanical Engineering