

Multidisciplinary Engineering

Catalog Year 2024-2025

Note: This is a recommended sequence and shifts are likely to occur due to prerequisite completion and course availability.

Semester One	Semester Two
CHEM 1127Q: General Chemistry I (4 credits)	CHEM 1128Q: General Chemistry II (4 credits)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
ENGL 1007: Writing and Composition (4 credits)	ENGR 1166: Foundations of Engineering (3 credits)
Area Elective: BIO 1107 Princ. of Biology I (4 credits)	CSE 1010: Intro to Computing for Engineers (3 credits)
	Elective: Rec. BIO 1108 Princ. of Biology II (4 credits)
16 credits	18 credits

Semester Three	Semester Four
PHYS 1501Q: Physics for Engineers I (4 credits)	PHYS 1502Q: Physics for Engineers II (4 credits)
MATH 2110Q: Multivariable Calculus (4 credits)	MATH 2410Q: Elem. Differential Equations (3 credits)
CHEG 2103: Intro to Chemical Engineering (3 credits)	MSE 2002/2102: Materials Sci. & Engin. II (3 credits)
MSE 2001/2101: Materials Sci. & Engin. I (3 credits)	Area Elective (3 credits): CHEM 2444 Orgo 2 Area
Area Elective (3 credits): CHEM 2243 Orgo 1	Area Elective (3 credits): CHEM 2445 Orgo Chem Lab
	Gen Ed (3 credits)- ENGL course (CA 1)
17 credits	19 credits

Semester Five	Semester Six
CE/ENVE 3120: Fluid Mechanics (4 credits)	STAT 3025Q Statistical Methods (3 credits)
ECE 2001: Electrical Circuits (4 credits)	CE 3110: Mechanics of Materials (3 credits)
ME 2233 or MSE 3001 or CHEG 2111 (3 credits)	Gen Ed (3 credits)- SOCI/ANTH (CA 2/4INT) with W
CE 2110: Applied Mechanics I (3 credits)	Area Elective (3 credits)- MCB 2210 Cell Biology
Area Elective (4 credits)-MCB 2000 Biochemistry	Free Elective- PSYC 1100 Intro to Psych (3 credits)
18 credits	15 credits

Semester Seven	Semester Eight
ENGR 4001: MDE Design I (3 credits)	ENGR 4002W: MDE Design II (3 credits)
ENGR Elective (2000+) (3 credits)	ENGR Elective (3000+) (3 credits)
ENGR Elective (3000+) (3 credits)	PHIL 1104: Philosophy & Social Ethics (CA 1) (3 credits)
Area Elective (3 credits)- MCB 2400/MCB 2410 Genetics	Gen Ed (3 credits): CA 4 with E
Area Elective (3/4 credits)- MCB 2610 Microbiology (Pre-dental) or PNB 2264 Anatomy & Physiobiology	Gen Ed (3 credits)- PSYC 1101 (CA 2)
15/16 credits	16 credits

*as needed to reach total degree credits

See reverse for important general education and major specific information.

Total Credits: 135
