

Management and Engineering for Manufacturing

Catalog Year 2025-2026

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) (TOI 6)	CSE 1010: Intro to Computing for ENGR (3 credits)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
MEM 1151: Intro to MEM (3 credits)	ENGL 1007: Writing and Composition (4 credits)
STAT 1100Q/1000Q: Elem. Statistics (4 credits)	ECON 1201: Prin. Of Micro (TOI 5/TOI 6) (3 credits)
ENGR 1000: Orientation to Engineering (1 credit)	ENGR 1195: AI4All (2 credits)
16 credits	16 credits

Semester Three	Semester Four
MEM 2211: Intro to Manuf. Systems (3 credits)	ACCT 2001: Prin. Of Financial Accounting (3 credits)
MEM 2213: Manuf. Systems Lab (3 credits)	MATH 2410Q: Elem. Differential Equations (3 credits)
MATH 2110Q: Multivariable Calculus (4 credits)	PHYS 1502Q: Physics for Engineers II (4 credits)(TOI 6)
PHYS 1501Q: Physics for Engineers I (4 credits) (TOI 6)	CE 2110: Applied Mechanics I (3 credits)
ECON 1202: Prin. Of Macro (TOI 5/TOI 6) (3 credits)	COMM 1000 (TOI 2/TOI 5) (3 credits)
	TOI Course (3 credits)
17 credits	19 credits

Semester Five	Semester Six
MEM 3221: Intro to Products & Processes (3 credits)	MEM 3231: Comp. in Manufacturing (3 credits)
ACCT 2101: Prin. Of Managerial Accounting (3 credits)	FNCE 3101: Financial Management (3 credits)
OPIM 3603: Princ. Project Management (3 credits)	ME 3227: Design of Machine Elements (3 credits)
BLAW 3175: Legal & Ethic. Env. Of Business (3 credits)	ME 2233: Thermodynamic Principles (3 credits)
ECE 2000: Electrical & Comput. Engin. Prin. (3 credits)	MENT 3101: Manag. & Interp. Behav. (3 credits)
CE 3110: Mechanics of Materials (3 credits)	MSE 2101: Materials Science & Engin. I (3 credits)
18 credits	18 credits

Semester Seven	Semester Eight
MEM 4971W: Senior Design I (2 credits)	MEM 4972W: Senior Design II (2 credits)
MEM 4225: Adv. Products & Processes (3 credits)	ENGR 3000+ Elective (3 credits)
ENGR 3215: Statistical Quality Control (3 credits)	MKTG 3101: Intro to Marketing Manag. (3 credits)
MEM 3263: Manufacturing Sensing (2 Credits)	MENT 4900: Strategy, Policy, & Planning (3 credits)
ME 3221: Manufacturing Automation (3 credits)	BUSN 3000+ Elective (3 credits)
TOI Course (3 credits)	TOI Course (3 credits)
16 credits	17 credits

Total Credits: 138