

CMU Mechanical Engineering Technology - Typical Course Offerings

Current for courses offered starting in Fall 2020

Required Courses

Typically offered FALL ONLY

Course	Name	Credits
ENGR 101	Intro to Engineering	1
ENGR 225	Intro to Manufacturing	3
ENGR 321	Fluid Mechanics	3
ENGR 312	Thermodynamics	3
ENGR 345	Engineering Integration I	3
ENGR 305	Engineering Economics and Ethics	2
STAT 305	Engineering Stats and QC	3
ENGR 401	Professionalism Seminar	1
ENGR 445	Senior Design Project I	3
ENGR 427	Engineering Measurements	2

Typically offered SPRING ONLY

Course	Name	Credits
ENGR 140	First Year Engineering Projects	3
ENGR 317	Circuits and Electronics	2
ENGR 317L	Circuits and Electronics Lab	1
ENGR 385	Engineering Integration II	3
ENGR 325	Component Design	3
ENGR 485	Senior Design Projects II	3
ENGR 446	Writing for Senior Design	1
ENGR 435	Industrial Controls	3
FE Exam	Take at approved testing center senior year	n/a

Typically offered BOTH semesters

Course	Name	Credits
MAMT 102	Intro to Machine Shop	1
MAMT 105	Print Reading and Sketching	2
MAMT 106	Geometric Dimensioning and Tolerancing	2
MATH 135	Calculus I	4
MATH 136	Calculus II	4
CSCI 130	Intro to Engineering Computing	4
PHYS 131	Fundamentals of Mechanics	4
PHYS 131L	Fundamentals of Mechanics Lab	1
CHEM 151	Engineering Chemistry	4
CHEM 151L	Engineering Chemistry Lab	1
ENGR 125	CAD and Fabrication	3
ENGR 261	Statics and Structures	3
ENGR 263	Mechanics of Solids	3
ENGR 224	Materials Science	2
ENGR 224L	Materials Science Lab	1
ENGR 343	Dynamics	3
ENGL 325	Writing for Engineers	3
KINE 100	Health and Wellness	1
KINA 1XX	Activity	1
ENGL 111	English Composition	3
ENGL 112	English Composition	3
ESSL 290	Maverick Milestone	3
ESSL 200	Milestone Speech	1
SOCI 120	Technology and Society	3
Humanities	Approved Humanities Course	3
History	Approved History Course	3
Fine Arts	Approved Fine Arts Course	3
Social/Behavioral Science	Approved Social/Behavioral Sci Course	3
Restricted Electives	Discuss with advisor	

Restricted Electives

Options typically offered in FALL semesters*

Course	Name	Credits
ENGR 455	Fluid Power Systems	3

Options typically offered in SPRING semesters*

Course	Name	Credits
ENGR 425	Advanced Manufacturing	3
ENGR 329	Bicycle Design and Frame-Building	3
ENGR 353	Exploring Entrepreneur Opportunities	3

*Course is not guaranteed to be offered. Check with your advisor or the department head for current Restricted Elective options.

Engineering courses are not typically offered during summer sessions. Other departments may offer courses in the summer depending on staffing and student enrollment. The two-year course planning calendar should be used to see a forecast of offerings and can be found at:

<https://www.coloradomesa.edu/academic-affairs/documents/combined-final-matrix.pdf>