

Bachelor of Science in Mechanical Engineering Technology

Curriculum

Required courses and recommended terms during which they should be taken:

Freshman Year	Fall	
CHE 101/201	Chemistry	3
CHE 104/204	Chemistry Laboratory	1
MATH 111	College Algebra	4
MET 111	Orientation I	2
WRI 121	English Composition	3
	Psychology elective*	3
Total		16

Freshman Year	Winter	
MATH 112	Trigonometry	4
MET 112	Orientation II	2
MFG 103	Introductory Welding Processes	3
WRI 122	English Composition	3
	Social Science elective	3
Total		15

Freshman Year	Spring	
MATH 251	Differential Calculus	4
MFG 120	Manufacturing Processes I	4
SPE 111	Fundamentals of Speech	3
	Economics elective	3
	Humanities elective	3
Total		17

Sophomore Year	Fall	
MATH 252	Integral Calculus	4
MET 160	Materials I	3
MET 241	CAD for Mechanical Design I	2
PHY 201/221	General Physics	4
WRI 227	Technical Report Writing	3
Total		16

Sophomore Year	Winter	
ENGR 211	Statics**	4
MATH 254N	Vector Calculus I	4
MET 242	CAD for Mechanical Design II	2
MFG 112	Introduction to Manufacturing Processes	3
PHY 202/222	General Physics	4
Total		17

Sophomore Year	Spring	
ENGR 213	Strength of Materials**	4
MATH 361	Statistical Methods I	4
MET 218	Fluid Mechanics	4
PHY 203/223	General Physics	4
Total		16

Junior Year	Fall	
ENGR 236	Fundamentals of Electric Circuits	3
ENGR 266	Computer Programming for Engineers	3
MET 315	Machine Design I	3
MET 360	Materials II	3
MET 363	Instrumentation	3
Total		15

Junior Year	Winter	
ENGR 212	Dynamics	3
ENGR 355	Thermodynamics***	3
MET 316	Machine Design II	3
MET 375	Solid Modeling	3
	Social Science elective	3
Total		15

Junior Year	Spring	
MET 313	Applied Thermodynamics	3
MET 415	Design Project	3
MET 351	Finite Element Analysis	3
MFG 314	Geometric Dimensioning and Tolerancing	3
	Humanities elective	3
Total		15

Senior Year	Fall	
MGT 345	Engineering Economy	3
MET 323	Heat Transfer I	3
MET 326	Electric Power Systems	3
MET 490	Senior Projects I	3
	MET elective	3
Total		15

Senior Year	Winter	
MET 426	Fluid Power Systems	3
MET 437	Heat Transfer II	2
MET 491	Senior Projects II	3
SPE 321	Small Group and Team Communication	3
WRI 327	Advanced Technical Writing	3...
	MET elective	3
Total		17

Senior Year	Spring	
MET 492	Senior Projects III	3
MFG 331	Industrial Controls	3
	Engineering Exam****	1
	Humanities elective	3
	MET elective	3
	MET elective	3
Total		16

* PSY 201 Recommended

** ENGT 230, ENGT 231, ENGT 232 sequence may be substituted for the ENGR 211, ENGR 213 sequence

*** MET 232 Thermodynamics may be substituted for ENGR 355 Thermodynamics

**** Engineering Exam to be selected from:

- ENGR 485 Fundamentals of Engineering Exam
- MFG 428 Manufacturing Engineering Certification