Bachelor of Science in Engineering

Technology

Engineering Technology with a Major in Mechanical Engineering Technology (BSET)

Degree Program Guide*

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
Freshman		
Fall		
MET 120	Computer Aided Drafting	3
ENGN 110	Explore Engineering and Technology	2
MATH 162M	Precalculus I (grade of C or better required)	3
CHEM 121N	Foundations of Chemistry I Lecture **	3
CHEM 122N	Foundations of Chemistry I Laboratory **	1
Human Behavior Way of Knowing 3		
	Credit Hours	15
Spring		
MET 230	Engineering Graphics and Computer Solid Modeling	3
ENGT 111	Engineering Technology Information Literacy/Research	2
MATH 163	Precalculus II (grade of C or better required)	3
PHYS 111N	Introductory General Physics	4
ENGL 110C	English Composition (grade of C or better required)	3
	Credit Hours	15
Sophomore		
Fall		
MET 200	Manufacturing Processes and Methods	3
MET 210	Statics	3
MATH 211	Calculus I (grade of C or better required)	4
PHYS 112N	Introductory General Physics	4
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research (grade of C or better required) or Writing, Rhetoric, and Research: Special Topics	3
	Credit Hours	17

Spring MET 220 Strength of Materials (grade of C or better required) MET 225 Strength of Materials Laboratory **STEM 221** Industrial Materials 3 or STEM 231 or Materials and Processes Technology COMM 101R Public Speaking 3 Human Creativity Way of Knowing 3 Gen Ed Literature 3 Credit Hours 16 Junior Fall MET 300 Thermodynamics (grade of C 3 or better required) **MET 310** Dynamics 3 **MET 320** Design of Machine Elements 3 ENGT 305 Advanced Technical Analysis EET 350 Fundamentals of Electrical 3 Technology EET 355 Electrical Laboratory 1 Credit Hours 16 Spring **MET 330** Fluid Mechanics 3 MET 335 Fluid Mechanics Laboratory 1 MET 350 Thermal Applications Automation and Controls *** **MET 370** 3 **MET 386** Automation and Controls 1 Laboratory ENMA 480 Ethics and Philosophy in 3 Engineering Applications Minor 3 Credit Hours 17 Senior Fall MET 387 Power and Energy Laboratory 2 ENGT 434 Introduction to Senior Project 1 ENGN 401 Fundamentals of Engineering 1 Review Senior Electives (400-level MET courses) 6 Minor ***** 3 Interpreting the Past Way of Knowing 3 16 Credit Hours Spring Senior Electives (400-level MET courses) 6 ENGT 435W Senior Design Project (grade of 3 C or better required) Minor ***** 6 Credit Hours 15 Total Credit Hours 127

Mechanical Engineering Technology Senior Electives

MET 400	Computer Numerical Control in Production	3
MET 405	Introduction To Welding Technologies	3
MET 406	Additive Manufacturing	3
MET 410	Advanced Manufacturing Processes	3
MET 415	Introduction to Robotics	3
MET 420	Design for Manufacturing	3
MET 426	Introduction to Mechatronics	3
MET 427	Mechatronic System Design	3
MET 430	Mechanical Subsystem Design	3
MET 431	Modeling and Simulation of Mechatronic Systems	3
MET 440	Heat Transfer	3
MET 445	Computer Integrated Manufacturing	3
MET 450	Energy Systems	3
MET 455	Lean Engineering	3
MET 460	Refrigeration and Air Conditioning	3
MET 465	Geometric Dimensioning and Tolerancing	3
MET 471	Nuclear Systems I	3
MET 472	Nuclear Systems II	3
MET 475	Marine Engineering I	3
MET 476	Marine Engineering II	3
MET 480	High Performance Piston Engines	3
MET 485	Maintenance Engineering	3
*	Does not include the University's General Education language and culture requirement. Additional hours n be required.	nay
**	Must be taken together.	
***	Must be taken together.	
***	Meets philosophy and ethics general education requirement.	
****	Students must select one of the following three option	is to

Students must select one of the following three options to satisfy the university's general education goal to integrate knowledge at the advanced level:

- 1. A minor from the College of Engineering and Technology
- 2. A minor from the College of Sciences
- 3. A minor in Cybersecurity

Note that minors requiring more than four courses will increase the total credits required to complete the degree.