

MECHANICAL ENGINEERING TECHNOLOGY, BSET

Requirements for Students Matriculating in or before Academic Year 2018-2019. Learn more about University Academic Regulation 3.1 (<http://catalog.okstate.edu/university-academic-regulations/#matriculation>).

Minimum Overall Grade Point Average: 2.00

Total Hours: 121

Code	Title	Hours
General Education Requirements		
All General Education coursework requirements are satisfied upon completion of this degree plan		
<i>English Composition</i>		
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)		
ENGL 1113	Composition I ¹	3
or ENGL 1313	Critical Analysis and Writing I	
ENGL 3323	Technical Writing ¹	3
<i>American History & Government</i>		
Select one of the following: 3		
HIST 1103	Survey of American History	
HIST 1483	American History to 1865	
HIST 1493	American History Since 1865	
POLS 1113	American Government	3
<i>Analytical & Quantitative Thought (A)</i>		
Select one of the following: 5		
MATH 1715	Precalculus (A)	
MATH 1513 & MATH 1613	College Algebra (A) and Trigonometry (A)	
MATH 1513 & MATH 1813	College Algebra (A) and Preparation for Calculus (A)	
<i>Humanities (H)</i>		
Courses designated (H) 6		
<i>Natural Sciences (N)</i>		
Must include one Laboratory Science (L) course		
Select one of the following: 4		
CHEM 1215	Chemical Principles I (LN)	
CHEM 1314	Chemistry I (LN)	
CHEM 1414	General Chemistry for Engineers (LN)	
PHYS 1114	College Physics I (LN)	4
or PHYS 2014	University Physics I (LN)	
PHYS 1214	College Physics II (LN)	4
or PHYS 2114	University Physics II (LN)	
<i>Social & Behavioral Sciences (S)</i>		
Select one of the following: 3		
SPCH 2713	Introduction to Speech Communication (S)	
SPCH 3703	Small Group Communication	
SPCH 3723	Business and Professional Communication	
Course designated (S) 3		
<i>Additional General Education</i>		

Courses designated (A) or (N)		3
Diversity (D) & International Dimension (I)		
May be completed in any part of the degree plan		
Select at least one Diversity (D) course		
Select at least one International Dimension (I) course		
Hours Subtotal		44
College/Departmental Requirements		
<i>Mathematics</i>		
MATH 2123	Calculus for Technology Programs I (A)	3
or MATH 2144	Calculus I (A)	
MATH 2133	Calculus for Technology Programs II (A)	3
or MATH 2153	Calculus II (A)	
<i>Specialty</i>		
MET 1213	Manufacturing Processes (or GENT 1223)	3
MET 2223	Intermediate Mechanical Computer-Aided Design (Or MET 1223)	3
MET 2103	Industrial Materials	3
MET 2313	Fundamentals of Hydraulic Fluid Power	3
<i>Related Specialty</i>		
GENT 2323	Statics	3
or ENSC 2113	Statics	
ENGR 1412	Introductory Engineering Computer Programming	2
or EET 1003	Introduction to Microcomputer Programming	
MET 1123	Technical Drawing and Basic CAD (Or GENT 1153)	3
Hours Subtotal		26
Major Requirements		
GENT 3323	Strength of Materials	3
or ENSC 2143	Strength of Materials	
MET 3433	Basic Thermodynamics (or GENT 3433)	3
MET 4433	Heat Transfer (or GENT 4433)	3
MET 3003	Dynamics	3
MET 3113	Basic Instrumentation	3
MET 3313	Applied Fluid Mechanics	3
MET 3343	Physical Metallurgy	3
MET 4003	Machine Elements	3
MET 4103	Senior Design I	3
MET 4123	Senior Design II	3
MET 4463	Thermal Fluids Laboratory	3
EET 3104	Elements of Electricity and Electronics	3
or ENSC 2613	Introduction to Electrical Science	
IEM 3503	Engineering Economic Analysis	3
or IEM 3513	Economic Decision Analysis	
Select 9 hours of the following:		9
MET 3413	Fundamentals of Pneumatic Fluid Power	
MET 3423	Intermediate Hydraulic Fluid Power	
MET 3573	Advanced Production Processes	
MET 4013	Parametric Computer-Aided Modeling	
MET 4023	Advanced Mechanical Computer-Aided Design	
MET 4033	Applied Vibration and Acoustics	
MET 4050	Advanced Mechanical Design	

MET 4113	Practical Computational Fluid Dynamics	
MET 4203	Finite Element Methods	
MET 4303	Computer Integrated Manufacturing	
MET 4313	Electrohydraulics and Motion Control	
MET 4413	Ground Source Heat Pump Systems	
MET 4453	Applied Thermodynamics	
MET 4503	Petroleum Operations	
MET 4883	Tool Design	
MET 4993	Mechanical Engineering Technology Practice	
Hours Subtotal		48
Electives		
At least 3 upper-division hours from: Accounting, Astronomy, Biology, Chemistry, Computer Science, Engineering, Engineering Technology, Entrepreneurship and Emerging Enterprise, Finance, Geology, Legal Studies in Business, Management, Marketing, Mathematics, Physics and Statistics		3
Hours Subtotal		3
Total Hours		121

¹ If B or higher is not earned in ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I, ENGL 1213 Composition II or ENGL 1413 Critical Analysis and Writing II is also required (per Academic Regulation 3.5 (<http://catalog.okstate.edu/university-academic-regulations>)).

Graduation Requirements

1. A minimum average GPA of 2.00 is required in all courses with an engineering or engineering technology prefix.
2. A grade of C or better is required in a 1000-3000-level GENT, EET, ENSC, or MET course in order to advance to a course for which the GENT, EET, ENSC, or MET course is prerequisite.
3. Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made so long as the changes do not delay graduation or result in semester hours being added.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2024.