MECHANICAL ENGINEERING TECHNOLOGY, BSET

Requirements for Students Matriculating in or before Academic Year 2025-2026. 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		
English Composition		
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
American History & Government		
Select one of the following:		3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865 (H)	
HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
Quantitative Thought & Logical Reasoning (Q)		
MATH 2144	Calculus I (Q)	4
MATH 2153	Calculus II (Q)	3
Understanding Humanities-Human Heritage & Cultures (H)		
Courses designated (H)		3
Courses designated (DH)		3
Reasoning in the Natural Sciences (N)		
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 2014	University Physics I (LN)	4
Exploring Society & Human Behavior (S)		
SPCH 2713	Introduction to Speech Communication (S)	3
Diversity (D)		
Courses designated (D)		
May be paired with another designated course		
Global Cultural Competency (G)		
Courses designated (G)		3
Additional General Education		
Additional general education credit hours (at least 1 hour) are required to meet the total 40-hour minimum. If courses carry more than one general education designation and can be used to meet multiple minimum general education designation hours above, more than 1 hour of additional general education will be required here to meet the 40-hour minimum.		
Courses designated (Q), (H), (N), (S), (D), (G), or (F).		1
Hours Subtotal		**40**

Code	Title	Hours
College/Departmental Requirements		
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
Specialty		
MET 2313	Fundamentals of Hydraulic Fluid Power	3
MET 3543	Manufacturing Processes [3]	3
MET 4223	Geometric Dimensioning and Tolerancing	3
or MET 2223	Geometric Dimensioning and Tolerancing with Computer-Aided Design	
Related Specialty		
ENGR 1412	Introductory Engineering Computer Programming	2
or EET 3303	Python Programming for Technology and Engineering	
ENSC 2113	Statics	3
ENSC 2613	Introduction to Electrical Science	3
ENSC 2411	Electrical Science Lab	1
Select three hours from the following:		3
MET 1123	Technical Drawing and Basic CAD [4]	
OR		
ENGR 1322 & MET 1121	Engineering Design with CAD and Technical Graphics	
OR		
ENGR 1332 & MET 1121	Engineering Design with CAD for MAE and Technical Graphics	
ENSC 2141	Strength of Materials Lab	1
ENSC 3231	Fluids and Hydraulics Lab	1
ENSC 3311	Material Science Lab	1
ENSC 3431	Thermodynamics and Heat Transfer Lab	1
ENGR 2421	Engineering Data Acquisition Controls Lab	1
Hours Subtotal		**27**
Major Requirements		
ENSC 2143	Strength of Materials	3
or GENT 3323	Strength of Materials	
MET 3433	Basic Thermodynamics [5]	3
or ENSC 2213	Thermodynamics	
MET 3453	Heat Transfer [6]	3
MET 3003	Dynamics	3
or ENSC 2123	Elementary Dynamics	
MET 3113	Basic Instrumentation	3
MET 3313	Applied Fluid Mechanics	3
MET 3343	Metallurgy and Polymers	3
MET 4003	Machine Elements	3
MET 4103	Senior Design I	3
or MET 4133	Interdisciplinary Design I	
MET 4123	Senior Design II	3
or MET 4143	Interdisciplinary Design II	
IEM 3503	Engineering Economic Analysis	3
or IEM 3513	Economic Decision Analysis	
Select 9 hours of the following:		9
MET 3803	Fundamentals of Mechatronics	
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 4173	Additive Manufacturing: Materials, Methods and Applications	
MET 4713	Internal Ballistics	
MET 4723	External Ballistics	
MET 4733	Terminal Ballistics and Armor	
MET 4803	Mechatronic System Design	
MET 4993	Mechanical Engineering Technology Practice	
MET 4953	Industrial Assessment and Improvement	
Hours Subtotal		**42**
Electives		
A total of 12 credit hours from the following with at least 3 being upper-division hours: MET 4993 Mechanical Engineering Technology Practice, 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. [7]		12
Hours Subtotal		**12**
Total Hours		**121**

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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/)).

2

MET 1223 also permitted.

3

MET 1213 or GENT 1223 also permitted.

4

GENT 1153 also permitted.

5

GENT 3433 is also permitted.

6

MET 4433 or GENT 4433 is also permitted.

7

MATH 1513 can be taken here if a student needs to take MATH 1513 as a prerequisite for MATH 1813.

Graduation Requirements

1. A minimum average Technical GPA of 2.00 is required. The technical GPA is calculated from all courses counting in the curriculum with a prefix belonging to the degree program, or substitutions for these courses.

2. A grade of 'C' or better is required in all courses with an analytical or natural science designation or engineering or engineering technology prefix.

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.

4. The minimum requirements for the Mechanical Engineering Technology degree is 121. In cases where two courses can meet a requirement and they have differing credit hours, the lower credit hour course is typically recommended. The alternatives are largely listed to facilitate transfer into the MET degree from other programs.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 and 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 2031.