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

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**General Education Requirements**

All General Education coursework requirements are satisfied upon completion of this degree plan

**English Composition**

See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)

ENGL 1113 Composition I 3

or ENGL 1313 Critical Analysis and Writing I

ENGL 3323 Technical Writing 3

**American History & Government**

Select one of the following:

HIST 1103 Survey of American History 3

HIST 1483 American History to 1865

HIST 1493 American History Since 1865

POLS 1113 American Government 3

**Analytical & Quantitative Thought (A)**

Select one of the following:

MATH 1715 Precalculus (A) 5

or MATH 1513 & MATH 1613 College Algebra (A) and Trigonometry (A)

MATH 1513 & MATH 1813 College Algebra (A) and Preparation for Calculus (A)

**Humanities (H)**

Courses designated (H) 6

**Natural Sciences (N)**

Must include one Laboratory Science (L) course

Select one of the following:

CHEM 1215 Chemical Principles I (LN) 4

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)

**Social & Behavioral Sciences (S)**

Select one of the following:

SPCH 2713 Introduction to Speech Communication (S) 3

SPCH 3703 Small Group Communication

SPCH 3723 Business and Professional Communication

Course designated (S) 3

**Additional General Education**

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**

**Mathematics**

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)

**Specialty**

MET 1213 Manufacturing Processes (or GENT 1223) 3

MET 2223 Intermediate Mechanical Computer-Aided Design (Or MET 1223)

MET 2103 Industrial Materials 3

MET 2313 Fundamentals of Hydraulic Fluid Power 3

**Related Specialty**

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 2113 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:

MET 3413 Fundamentals of Pneumatic Fluid Power 3

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 9

**Hours Subtotal** 36
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

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.