



OKLAHOMA STATE UNIVERSITY

College of Engineering, Architecture & Technology

Mechanical Engineering TECHNOLOGY

Mechanical Engineering Technology (MET) comprises a wide range of technical and engineering related activities including design, development, testing, manufacturing, and production; field service engineering; and marketing and sales. The scope of Mechanical Engineering Technology includes transportation, power generation, fluid power, energy conversion, climate control, machine design, manufacturing and automation, and process control.

Mechanical Engineering Technology at Oklahoma State University is a Bachelor of Science program that offers graduates the educational breadth and depth to fill challenging and rewarding positions. The courses stress the application of scientific and technical knowledge. Laboratory courses provide opportunities to observe and apply scientific and technical concepts.

THE PROGRAM

The Mechanical Engineering Technology student may choose to specialize in one or more of the following areas:

- Computer-Aided Design (CAD)
- Fluid Power
- Applied Engineering Analysis
- Manufacturing

STUDENT ACTIVITIES AND ORGANIZATIONS

Mechanical Engineering Technology has four professional organizations, the Society of Automotive Engineers (SAE), the Fluid Power Society (FPS), the Society of Manufacturing Engineers (SME), and the American Society of Mechanical Engineers (ASME). MET students may get involved with all.

ACCREDITATION

The Mechanical Engineering Technology program is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology, Inc. (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202 (410) 347-7700.

CAREER OPPORTUNITIES

Because the program focuses on the application of engineering principles to the pragmatic solution of problems, graduates are productive with minimal on-the-job training—thus increasing their value to industry. Graduates of the Mechanical Engineering Technology program are prepared to function in the areas of product design, testing, and evaluation; product application and engineering; and technical sales and liaison. Industries employing our graduates include manufacturing companies of all types (aircraft, automobile, compressor and turbine, fluid power manufacturers and others); energy companies (such as the electrical power generation, and the petroleum and natural gas industries); and technical service companies providing engineering skills and knowledge to all facets of industry. This, being only a partial list of employment opportunities, indicates the wide variety of career options for graduates of the Mechanical Engineering Technology program. Starting salaries in this area exceed the average for most Bachelor of Science degree programs.



FOR FURTHER INFORMATION

Oklahoma State University
Mechanical Engineering Technology
381 Cordell South
Stillwater, OK 74078-8014
(405) 744-5710
<http://www.met.okstate.edu>



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College of Engineering, Architecture & Technology Mechanical Engineering **TECHNOLOGY**

TYPICAL FOUR-YEAR PLAN

FRESHMAN YEAR

First Semester

MET	1103	Introduction to MET
GENT	1153	Engineering Graphics
ENGL	1113	Freshman Composition I
MATH	1513	College Algebra
(S)	<u>xxx3</u>	Social Science
	15	Credit Hours

Second Semester

MET	1223	Industrial CAD
GENT	1223	Manufacturing Processes
CHEM	1215	General Chemistry
ENGL	1213	English Composition II
MATH	<u>1613</u>	Trigonometry
	17	Credit Hours

SOPHOMORE YEAR

First Semester

MET	2103	Industrial Materials
MET	2313	Fundamentals of Hydraulic Fluid Power
POLS	1113	American Government
MATH	2123	Technical Calculus I
PHYS	<u>1114</u>	Physics I
	16	Credit Hours

Second Semester

GENT	2323	Statics
EET	1003	Computer Programming
MATH	2133	Technical Calculus II
PHYS	1214	Physics II
HIST	<u>1103</u>	Survey of American History
	16	Credit Hours

JUNIOR YEAR

First Semester

MET	3313	Applied Fluid Mechanics
GENT	3233	Strength of Materials
GENT	3433	Basic Thermodynamics
EET	3104	Elements of Electricity and Electronics
(H)	<u>xxx3</u>	Humanities
	16	Credit Hours

Second Semester

MET	3003	Dynamics
MET	3113	Basic Instrumentation
MET	3433	Physical Metallurgy
GENT	4433	Heat Transfer
SPCH	<u>xxx3</u>	Speech Communication
Elect.	<u>xxx2</u>	Controlled Elective
	17	Credit Hours



SENIOR YEAR

First Semester

MET	4003	Machine Design I
MET	4463	Thermal Fluids Laboratory
IEM	3513	Economic Decision Analysis
ENGL	3323	Technical Writing
MET	<u>xxx3</u>	MET Related Specialty
(S)	<u>xxx3</u>	Social Science
	18	Credit Hours

Second Semester

MET	4123	Senior Design Project
MET	<u>xxx3</u>	MET Related Specialty
MET	<u>xxx3</u>	MET Related Specialty
U.D.Elect.	<u>xxx3</u>	Upper Division Controlled Elective
(H)	<u>xxx3</u>	Humanities
	15	Credit Hours

General Education Requirements

Students in Engineering, Architecture and Technology must complete at least six credit hours of courses designated as (H) and six credit hours of course work designated (S). The student must also satisfy the international dimension requirement either by taking a course designated (I) or by approved international experience and complete a diversity (D) course. If this course work is taken at Oklahoma State University, the course must have been designated as (H), (S) and/or (I) respectively at the time it was taken. If one or more of the courses were taken at another institution the course must transfer as equivalent to an Oklahoma State University course that was designated (H), (S) and/or (I) respectively at the time that the transfer course was taken. Engineering students should verify their course selections in these categories with advisers in the CEAT Office of Student Academic Services before enrollment.

Transfer Credit Evaluation

Transfer credit evaluation in the Office of Undergraduate Admissions determines acceptable transfer credit on a course-by-course basis for college-level credit earned at institutions who are fully accredited by any of the six US regional associations. The evaluation is based on course content, as described in the catalogs of those institutions and in consultation with appropriate academic units at OSU. All transferred courses are recorded on the student's academic record. No part of the previous collegiate record may be disregarded. Courses completed at institutions located outside of the US will be reviewed for transfer credit based on US regional accreditation standards or post-secondary recognition in the country for which the institution is located. It is highly recommended that the program requirements and course syllabi be submitted for all courses completed overseas.

Oklahoma State University in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Americans with Disabilities Act of 1990, and other federal laws and regulations, does not discriminate on the basis of race, color, national origin, sex, age, religion, disability, or status as a veteran in any of its policies, practices or procedures. This includes but is not limited to admissions, employment, financial aid, and educational services. Title IX of the Education Amendments and Oklahoma State University policy prohibit discrimination in the provision of services of benefits offered by the University based on gender. Any person (student, faculty or staff) who believes that discriminatory practices have been engaged in based upon gender may discuss their concerns and file informal or formal complaints of possible violations of Title IX with the OSU Title IX Coordinator, Dr. Carolyn Hernandez, Director of Affirmative Action, 408 Whitehurst, Oklahoma State University, Stillwater, OK 74078, (405)744-5371 or (405)744-5576(fax). This publication, issued by Oklahoma State University as authorized by the Division of Engineering Technology, was printed by Oklahoma Career Tech at a total cost of \$490. 2M/9/2008 #2375