

Mechanical Engineering Technology Program

OVERVIEW OF THE PROGRAM:

Mechanical Engineering Technology is a broad and diverse discipline. The program combines rigorous work in technology and engineering with hands-on lab experience. The curriculum is a highly flexible 2 + 2 curriculum. Once the two year degree is earned, graduates may choose to enter the workforce or continue their education with two years at the baccalaureate level. The Associate of Science degree in Mechanical Engineering Technology provides technical courses in the fundamentals of mathematics, science, strength of materials, electronics, computer aided drafting, thermodynamics, fluid mechanics, and machine design. Students are also required to take courses that focus on oral and written communication skills. The Bachelor of Science degree provides students a greater emphasis on analysis and design with classes in heat transfer, thermodynamics, dynamics, and mechanical measurements. In addition, students will complete the university's general studies requirements to form a well-rounded education. Classes are small and students interact one-on-one with highly trained and educated faculty. Professors contribute additional time and effort to give every student the opportunity to succeed.

Students have the opportunity to join the student chapter of the Society of Automotive Engineers (SAE). Students design, fabricate and test a Baja buggy and compete in the Baja SAE Series each year. Fairmont State University also offers funded undergraduate research.

The program is accredited by ETAC of ABET. Graduates are eligible to take the Fundamentals of Engineering Exam as a path to state registration.

EMPLOYMENT OPPORTUNITIES:

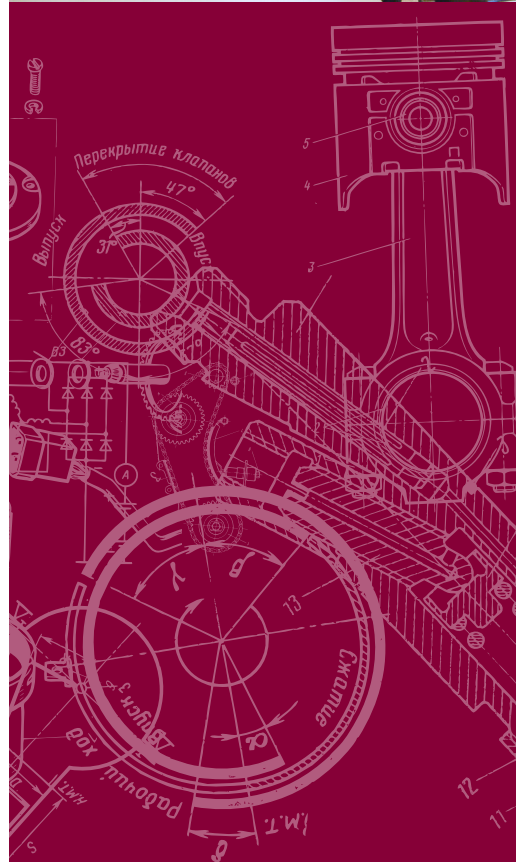
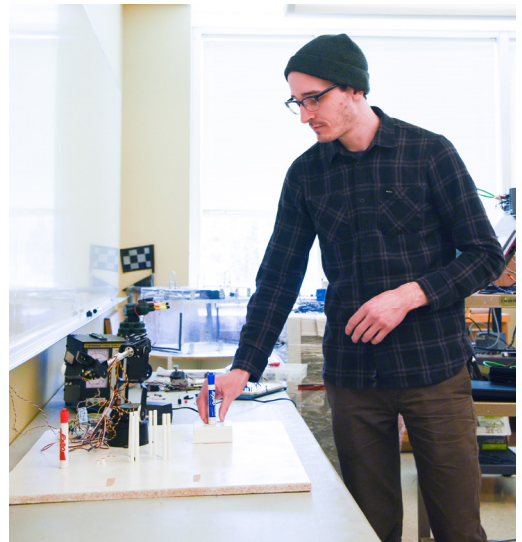
Many graduates obtain employment in local energy related companies. Students also have the opportunity to pursue various graduate degrees. Starting salaries range from \$40,000 to \$60,000. Salaries range from \$50,000 to \$70,000 for graduates in their first five years of employment.

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**FAIRMONT STATE
UNIVERSITY™**

**College of Science and
Technology**



CONTACT INFORMATION

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BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY

NOTES:

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL 1101	WRITTEN ENGLISH I.....	3
MATH 1510	APPLIED TECHNICAL MATH I.....	3
MANF 1100	MATERIALS & PROCESSES.....	3
TECH 1108	ENGINEERING GRAPHICS.....	3
		12

FRESHMAN SECOND SEMESTER

COMM 2200 OR 2201 OR 2202	.....	3
ELEC 1100	CIRCUIT ANALYSIS.....	3
ENGL 1103	TECHNICAL REPORT WRITING.....	3
MATH 1520	APPLIED TECHNICAL MATH II.....	3
MECH 1100	STATICS.....	3
		15

SOPHOMORE FIRST SEMESTER

PHYS 1101	INTRODUCTION TO PHYSICS I.....	4
ELEC 2250	AC/DC MACHINERY.....	3
MECH 2200	STRENGTH OF MATERIALS.....	4
MECH 2210	THERMODYNAMICS.....	3
TECH 2290	ENGINEERING ANALYSIS I.....	4
		18

SOPHOMORE SECOND SEMESTER

PHYS 1102	INTRODUCTION TO PHYSICS II.....	4
MECH 2220	FLUID MECHANICS.....	3
MECH 2240	MACHINE DESIGN I.....	3
TECH 2208	ENGINEERING GRAPHICS II.....	3
FREE ELECTIVE (A.S. MAJOR 2HR, B.S. MAJOR 1HR)	.....	1-2
		14

JUNIOR FIRST SEMESTER

CHEM 1101	GENERAL CHEMISTRY I.....	4
COMP 1101	APP. TECHNICAL PROG.....	3
GENERAL STUDIES - ANY COURSE IN TECHNOLOGY LITERACY	.....	3
TECH 3300	ENGINEERING ANALYSIS II.....	4
		14

JUNIOR SECOND SEMESTER

TECH ELECTIVE	.....	3
BSBA 2200	INTRO. TO ECONOMICS.....	3
MECH 3300	THERMODYNAMICS II.....	3
HIST 1107 OR 1108	.....	3
GENERAL STUDIES – ANY COURSE IN FINE ARTS	.....	3
		15

SENIOR FIRST SEMESTER

MECH 3320	DYNAMICS.....	3
MECH 3330	HEAT TRANSFER I.....	3
MECH 4410	THERMODYNAMICS III.....	3
MECH 4400	MECH MEASUREMENTS.....	3
GENERAL STUDIES – ANY COURSE IN INTERDISCIPLINARY & LIFELONG LEARNING	.....	3
GENERAL STUDIES – ANY COURSE IN CULTURAL AWARENESS AND HUMAN DIGNITY	..	3
		18

SENIOR SECOND SEMESTER

MECH 3340	HEAT, VENT. & AIR COND.....	3
MECH 4430	HEAT TRANSFER II.....	3
TECH ELECTIVE	.....	3
TECH ELECTIVE	.....	3
PHED 1100	.....	2
		14