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 $52,000 to $65,000. Salaries range from $65,000 to $82,000 for graduates in their first five years of employment.

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FAIRMONT STATE UNIVERSITY™
College of Science & Technology

MECHANICAL ENGINEERING TECHNOLOGY PROGRAM

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER	
ENGL 1101 WRITTEN ENGLISH I	3
MATH 1410 APPLIED TECHNICAL MATH I	4
MANF 1100 MATERIALS & PROCESSES	3
TECH 1108 ENGINEERING GRAPHICS I	3
SOAR 1100 FIRST YEAR SEMINAR	1
	TOTAL 14

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
	TOTAL 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
	TOTAL 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
	TOTAL 13

JUNIOR FIRST SEMESTER	
CHEM 1101 GENERAL CHEMISTRY I	4
COMP 1110 INTRODUCTION TO PROGRAMMING	3
CORE CURRICULUM	3
TECH 3300 ENGINEERING ANALYSIS II	4
	TOTAL 14

JUNIOR SECOND SEMESTER	
SFTY 1100 SAFETY & ENVIRONMENTAL COMP OF INDUSTRY	3
MANF 2205 ENGINEERING ECONOMY	3
MECH 3300 THERMODYNAMICS II	3
CORE CURRICULUM	3
CORE CURRICULUM	3
	TOTAL 15

SENIOR FIRST SEMESTER	
MECH 3320 DYNAMICS	3
MECH 3330 HEAT TRANSFER I	3
MECH 4420 MACHINE DESIGN II	3
MECH 4400 MECHANICAL MEASUREMENTS	3
TECH ELECTIVE	3
FREE ELECTIVE	2
	TOTAL 17

SENIOR SECOND SEMESTER	
MECH 3340 HEATING, AIR CONDITIONING AND VENTILATION	3
MECH 3350 NUMERICAL METHODS	3
TECH ELECTIVE	3
FREE ELECTIVE	3
CORE CURRICULUM	2
	TOTAL 14

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CONTACT INFORMATION

Jason Bolyard
Department of Engineering Technology
414 Engineering Technology
Jason.Bolyard@fairmontstate.edu
Phone: (304) 367-4849