

Mechanical Engineering Technology Program



COLLEGE OF SCIENCE AND TECHNOLOGY

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, student will complete the universities 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.

FOR MORE INFORMATION VISIT

www.fairmontstate.edu/collegeofscitech



CONTACT INFORMATION

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**BACHELOR OF SCIENCE IN MECHANICAL
ENGINEERING TECHNOLOGY
MODEL SCHEDULE**

Notes:

FRESHMAN FIRST SEMESTER

ENGL	1104	WRITTEN ENGLISH I	3
MATH	1101	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	1108	WRITTEN ENGLISH II	3
MATH	1102	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
ENGL	1109	TECHNICAL REPORT WRITING	3
TECH	3300	ENGINEERING ANALYSIS II	4
			14

JUNIOR SECOND SEMESTER

TECH ELECTIVE			3
ECON	2200	INTRO. TO ECONOMICS	3
MECH	3300	THERMODYNAMICS II	3
HIST	1107 OR 1108.....		3
GENERAL STUDIES – ANY COURSE IN VIIA			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 VI.....			3
GENERAL STUDIES – ANY COURSE IN VIII.....			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



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Affirmative Action institution.