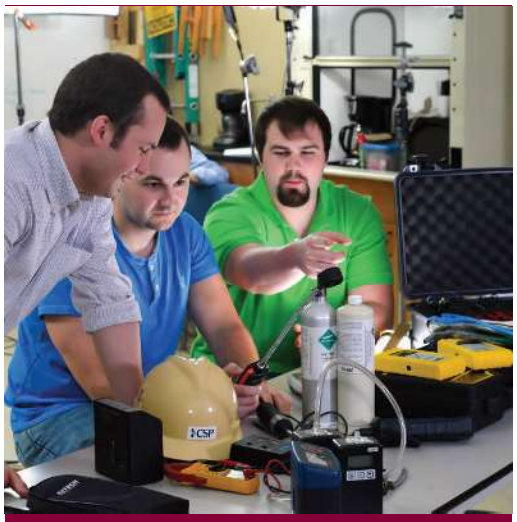
CIVIL ENGINEERING TECHNOLOGY PROGRAM



OVERVIEW OF THE PROGRAM:

The Civil Engineering Technology program at Fairmont State University prepares graduates to participate in the planning, analysis, design, construction, operation and maintenance of roadways, airports, tunnels, bridges, water supply and distribution systems and waste collection and treatment systems.

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 Civil Engineering Technology provides technical courses in the fundamentals of engineering technology, surveying, construction materials and methods, computer graphics, civil engineering graphics, construction estimating, structures, and environmental engineering technology.

Most of the technical courses provide a combination of lecture and laboratory experiences. In addition, technical courses are underpinned with instruction in mathematics and science, written and oral communication skills, which are utilized subsequently in the technical courses.

The Bachelor of Science degree provides students a greater emphasis on analysis and design with specialized classes in hydraulics and hydrology, soil mechanics and foundation design, structural analysis and design, water and wastewater systems, and construction management, coupled with additional classes in science and mathematics, and attributes in Fine Arts, Health & well being, citizenship & social sciences.

EMPLOYMENT OPPORTUNITIES:

Graduates with the Associate of Science degree are qualified for entry-level technical positions in construction, surveying, engineering and architectural firms; local, state and national government, environmental and public health agencies; state departments of transportation and highways; and private business and industry. Specific job titles include materials technician (soils, concrete, and aggregate), surveying crew chief assistant, drafter/detailer, construction or field inspector, office technician, CAD operator, construction technician or estimator.

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FAIRMONT STATE UNIVERSITY™

College of Science & Technology

CIVIL ENGINEERING TECHNOLOGY PROGRAM

Graduates with the Bachelor of Science degree are qualified for an entry-level position as a Civil Engineering Technologist in construction, surveying, engineering, and architectural firms; local, state, and national government, environmental and public health agencies; state departments of transportation and highways; and private business and industry. Specific job titles include transportation technologist, highway technologist, engineer-in-training, materials supervisor, surveying crew chief, civil engineering detailer/designer, office engineer, construction estimator or planner, engineering assistant, project engineer, and assistant project manager. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) the first step in becoming a registered professional engineer (PE).

The annual median wage of a Civil Engineer is $87,000.

ASCE STUDENT CHAPTER

Fairmont State has received national recognition for its involvement as an ASCE student chapter every year since 2001 and has consistently been ranked in the top one third of all student chapters internationally. The FSU ASCE student chapter has also been runner up to the association's top award, the Ridgeway Award, four times and has received the Zone IV Governors award five times.

Fairmont State has been awarded top honors in the Regional Concrete Canoe Competition for the past 14 consecutive years, competing against all Engineering and Engineering Technology programs in WV, VA, and Washington D.C. (14 universities). Regional wins secure FSU's invitation to compete in the National Concrete Canoe Competition (NCCC), held in June of each year. The chapter has traveled throughout the U.S. for the NCCC, competing against the top ranked schools in the country. The team holds the national record for the most consecutive visits to the NCCC.

For information about Fairmont State's ASCE student chapter contact:

Tabitha Lafferre, Temporary Assistant Professor
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BACHELOR OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY MODEL SCHEDULE

FRESHMAN FIRST SEMESTER	
CIVL 2210 LIGHT CONSTRUCTION	4
MATH 1410 APPLIED TECHNICAL MATH I	4
TECH 1108 ENGINEERING GRAPHICS I	3
ENGL 1101 WRITTEN ENGLISH I	3
SOAR 1100 FIRST YEAR SEMINAR	1
TOTAL	15
FRESHMAN SECOND SEMESTER	
ENGL 1103 TECHNICAL REPORT WRITING	3
MATH 1520 APPLIED TECHNICAL MATH II	3
CIVL 2220 CONSTRUCTION MATERIALS	4
MECH 1100 STATICS	3
COMM 2202 COMMUNICATION IN THE WORLD OF WORK	3
TOTAL	16
SOPHOMORE FIRST SEMESTER	
CHEM 1101 GENERAL CHEMISTRY I	4
TECH 2290 ENGINEERING ANALYSIS I	4
MECH 2200 STRENGTH OF MATERIALS	4
CIVL 2200 INTRODUCTION TO SURVEYING	3
TOTAL	15
SOPHOMORE SECOND SEMESTER	
CIVL 2230 CONSTRUCTION ESTIMATING	3
CIVL 2240 LAND & ROUTE SURVEYING	3
CIVL 2280 ENVIRONMENTAL ENGINEERING TECHNOLOGY I	3
CIVL 2290 INTRODUCTION TO STRUCTURES	3
CIVL 2275 CIVIL ENGINEERING GRAPHICS	3
TOTAL	15
JUNIOR FIRST SEMESTER	
CIVL 3305 HYDRAULICS & HYDROLOGY	3
TECH 3300 ENGINEERING ANALYSIS II	4
CIVL 3340 SOIL MECHANICS	4
FREE ELECTIVE	3
TOTAL	14
JUNIOR SECOND SEMESTER	
CIVL 4470 ADV. SOILS/FOUNDATIONS	4
CIVL 4440 STRUCTURAL DESIGN	3
CHEM 1102 GENERAL CHEMISTRY II	4
MANF 2205 ENGINEERING ECONOMY	3
TECHNICAL ELECTIVE	3
TOTAL	17
SENIOR FIRST SEMESTER	
CIVL 4410 ADVANCED STRUCTURAL ANALYSIS	3
CIVL 4460 ENVIRONMENTAL ENGINEERING TECHNOLOGY II	3
MECH 3320 DYNAMICS	3
CORE CURRICULUM	3
CORE CURRICULUM	3
TOTAL	15
SENIOR SECOND SEMESTER	
CIVL 4420 CONSTRUCTION PLANNING & ADMINISTRATION	3
CORE CURRICULUM	2
CIVL 4480 CET PROJECTS/APPLICATIONS	3
CIVL 4400 HIGHWAY DESIGN AND TRANSPORTATION	4
FREE ELECTIVE	2
TOTAL	14

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CONTACT INFORMATION

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