

SURVEYING & GEOMATICS ENGINEERING TECHNOLOGY PROGRAM

OVERVIEW OF THE PROGRAM:

The Surveying & Geomatics Engineering Technology program at Fairmont State University prepares graduates to collect and analyze three-dimensional information, prepare plans based on data collection, and to produce professional industry reports.

The Bachelor of Science degree provides technical courses in the fundamentals of surveying, surveying and civil engineering graphics, interpreting land records and survey boundaries, geodesy, photogrammetry, and topographic surveying, as well as professional practices and decision making. The degree is coupled with additional classes in science and mathematics, and attributes in Fine Arts, health & well being, citizenship, and social sciences

EMPLOYMENT OPPORTUNITIES:

Graduates with the Bachelor of Science degree are qualified for an entry-level position as a Surveying Technician. Graduates may work as a field surveyor or in an office using field data and imagery to create computer-based drawings and maps. Specific job titles include surveying technician, geographic information system technician, survey apprentice, survey crew chief, instrument operator, and geomatics technician. Baccalaureate graduates are eligible to sit for the Fundamentals of Surveying Exam (SE), the first step to becoming a registered Professional Surveyor (PS).

The annual median wage of a Professional Surveyor is \$73,000.



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**FAIRMONT STATE
UNIVERSITY™**

College of Science & Technology

SURVEYING & GEOMATICS ENGINEERING TECHNOLOGY PROGRAM

BACHELOR OF SCIENCE WITH SURVEYING & GEOMATICS ENGINEERING TECHNOLOGY CERTIFICATION

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

SURV 1160 SURVEYING DENDROLOGY	2
MATH 1410 APPLIED TECH MATH I - ENHANCED	4
ENGL 1101 WRITTEN ENGLISH I	3
TECH 1108 ENGINEERING GRAPHICS I	3
SOAR 1100 FIRST YEAR SEMINAR	1
FREE ELECTIVE	3
TOTAL	16

FRESHMAN SECOND SEMESTER

SURV 2200 PROFESSIONAL SURVEYING PRACTICES	3
MATH 1520 APPLIED TECH MATH II	3
ENGL 1103 TECHNICAL REPORT WRITING	3
SURV 2210 INTERPRETING LAND RECORDS	3
SURV 2220 SURVEYING ENGINEERING GRAPHICS	3
TOTAL	15

SOPHOMORE FIRST SEMESTER

COMM 2202 COMMUNICATIONS-WORLD OF WORK	3
SURV 2230 LAND SURVEY BOUNDARY	3
MATH 1550 APPLIED STATISTICS	3
CIVIL 2200 INTRODUCTION TO SURVEYING	3
CHEM 1101 GENERAL CHEMISTRY I	4
TOTAL	16

SOPHOMORE SECOND SEMESTER

GEOG 2210 INTRODUCTION TO GEOGRAPHY	3
CIVL 2240 CONSTRUCT/LAND/ROUTE SURVEYING	3
SURV 2290 BOUNDARY RETRACEMENT	3
TECH 2290 ENGINEERING ANALYSIS I	4
CIVL 2275 CIVIL ENGINEERING GRAPHICS	3
TOTAL	16

JUNIOR FIRST SEMESTER

PHYS 1101 GENERAL PHYSICS I	4
GEOG 2213 HISTORY OF 21ST CENTURY GEOGRAPHY	3
SURV 3310 SURVEYING MANAGEMENT	3
SURV 3340 PRINCIPLES OF PHOTOGRAMMETRY	3
SURV 3380 TOPOGRAPHIC SURVEYING	3
TOTAL	16

JUNIOR SECOND SEMESTER

GEOG 3316 INTRO TO GEOSPATIAL METHODS	3
CIVL 2280 ENVIRONMENTAL ENGINEERING TECH I	3
SURV 3360 ADVANCED SURVEYING DENDROLOGY	2
SURV 3390 ADVANCED SURVEYING AND MAPPING	3
FREE ELECTIVE	3
TOTAL	14

SENIOR FIRST SEMESTER

SURV 4420 SURVEYING PRACTICES & DECISION MAKING	3
SURV 4400 INTERNSHIP / CO-OP	3
CIVL 3305 HYDRAULICS & HYDROLOGY	3
HUMANITIES WITH CRITICAL THINKING ELECTIVE	3
FREE ELECTIVE	3
TOTAL	15

SENIOR SECOND SEMESTER

SURV 4480 SURVEYING PROJECTS AND APPLICATION	4
CITIZENSHIP ELECTIVE	3
FINE ARTS ELECTIVE	3
FREE ELECTIVE	2
TOTAL	12



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CONTACT INFORMATION

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