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. Bacclaureate 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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SURVEYING & GEOMATICS ENGINEERING TECHNOLOGY PROGRAM

BACHELOR OF SCIENCE WITH SURVEYING & GEOMATICS ENGINEERING TECHNOLOGY CERTIFICATION

MODEL SCHEDULE

| SURV 1160 SURVEYING DENDROLOGY MATH 1410 APPLIED TECH MATH I -ENHANCED 4 GEOG 2213 HISTORY OF 21ST CENTURY GEOGRAPHY SURV 3310 SURVYING MANAGEMENT SURV 3310 SURVYING MANAGEMENT 3 SURV 3310 SURV 3340 PRINCIPLES OF PHOTOGRAMMETRY 5 SOAR 1100 FIRST YEAR SEMINAR 5 SURV 3310 SURV 3340 PRINCIPLES OF PHOTOGRAMMETRY 5 SURV 3380 TOPOGRAPHIC SURVEYING 5 SURV 3380 TOPOGRAPHIC SURVEYING 5 SURV 2380 TOPOGRAPHIC SURVEYING 5 SURV 2380 TOPOGRAPHIC SURVEYING 6 GEOG 3316 INTRO TO GEOSPATIAL METHODS 7 SURV 2280 ENVIRONMENTAL ENGINEERING TECH I 7 SURV 2280 ENVIRONMENTAL ENGINEERING TECH I 7 SURV 2280 ENVIRONMENTAL ENGINEERING TECH I 7 SURV 2290 LINTERPRETING LAND RECORDS 7 SURV 2210 INTERPRETING LAND RECORDS 7 SURV 2220 SURVEYING ENGINEERING GRAPHICS 7 SURV 2220 SURVEYING ENGINEERING GRAPHICS 7 SURV 2420 SURVEYING PRACTICES & DECISION MAKING 7 SURV 2420 SURVEYING PRACTICE |
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| SOPHOMORE SECOND SEMESTER |
| CITIZENSHIP ELECTIVE 3 |
| GEOG 2210 INTRODUCTION TO GEOGRAPHY 3 FINE ARTS ELECTIVE 3 |
| CIVL 2240 CONSTRUCT/LAND/ROUTE SURVEYING 3 FREE ELECTIVE 2 |
| SURV 2290 BOUNDARY RETRACEMENT 3 TOTAL 1 |
| TECH 2290 ENGINEERING ANALYSIS I 4 |
| CIVL 2275 CIVIL ENGINEERING GRAPHICS 3 |
| TOTAL 16 |



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