

Awards

Associate Degree: Geomatics Technology (A40420)
Length of Program: 5 Semesters
Prerequisite: High School Diploma, Placement Test Equivalent

Diploma: Not Applicable
Length of Program:
Prerequisite:

Certificate: Not Applicable
Length of Program:
Prerequisite:

Program Information Contact

Curriculum Chairperson

Cathy Christianson
(910) 678-8249

Advanced Technology Center, Room 244D
christic@faytechcc.edu
www.faytechcc.edu

Other Important Information

Application Deadlines: The program is designed for a student to enter during the fall semester. A student may enter at other times with approval of the Department Chairperson.

Scholarship/Title IV Financial Aid/VA Services: Scholarships/Title IV Financial Aid/Veteran's assistance may be available for associate degrees. Certificates and diplomas that fall under this program/area of study may or may not be eligible for Scholarship/Title IV Financial Aid/VA Services. Please contact the Financial Aid Office, Student Center, Room 2; Telephone (910) 678-8242. Veterans Services, General Classroom Building, Room 202, (910) 678-8580.



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GEOMATICS TECHNOLOGY



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PROGRAM FACT SHEET GEOMATICS TECHNOLOGY (A40420)



A course of study that prepares students to use mathematical and scientific principles for the delineation, determination, planning and positioning of land tracts, boundaries, contours and features applying principles of route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other kinds of property description and measurement to create related maps, charts and reports.

Includes instruction in applied geodesy, computer graphics, photointerpretation, instrument calibration, and basic cartography mensuration, traversing, survey equipment operation and maintenance, instrument calibration and basic cartography.



Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.



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FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE GEOMATICS TECHNOLOGY (A40420)

Effective: Fall 2025

Revised: 02/21/25

Length: 5 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

Award: Associate in Applied Science

FALL SEMESTER 1

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|--------------------------|-----------|-----------|----------|-----------|
| CEG | 151 | CAD for Engineering Tech | 2 | 3 | 0 | 3 |
| ENG | 111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
| MAT | 171 | Precalculus Algebra | 3 | 2 | 0 | 4 |
| PSY | 150 | General Psychology | 3 | 0 | 0 | 3 |
| SRV | 110 | Surveying I | 2 | 6 | 0 | 4 |
| TOTALS | | | 13 | 11 | 0 | 17 |

SPRING SEMESTER 1

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|---------------------------|-----------|-----------|----------|-----------|
| CEG | 111 | Intro to GIS and GNSS | 2 | 4 | 0 | 4 |
| CIS | 110 | Intro to Computers | 2 | 2 | 0 | 3 |
| or | | | | | | |
| CIS | 113 | Computer Basics | 0 | 2 | 0 | 1 |
| EGR | 115 | Intro to Technology | 2 | 3 | 0 | 3 |
| EGR | 250 | Statics/Strength of Mater | 4 | 3 | 0 | 5 |
| MAT | 172 | Precalculus Trigonometry | 3 | 2 | 0 | 4 |
| TOTALS | | | 11 | 14 | 0 | 17 |

SUMMER SEMESTER 1

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|-----------------------|----------|-----------|----------|----------|
| CIV | 111 | Soils and Foundations | 2 | 4 | 0 | 4 |
| SRV | 111 | Surveying II | 2 | 6 | 0 | 4 |
| TOTALS | | | 4 | 10 | 0 | 8 |

FALL SEMESTER 2

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|--------------------------|----------|-----------|----------|-----------|
| CEG | 211 | Hydrology & Erosion Cont | 2 | 3 | 0 | 3 |
| SRV | 210 | Surveying III | 2 | 6 | 0 | 4 |
| SRV | 220 | Surveying Law | 2 | 2 | 0 | 3 |
| TOTALS | | | 6 | 11 | 0 | 10 |

SPRING SEMESTER 2

| Prefix | No. | Title | Class | Lab | Clinical | Credit |
|---------------|-----|---------------------------|----------|-----------|----------|-----------|
| CEG | 230 | Subdivision Plan & Design | 1 | 6 | 0 | 3 |
| COM | 231 | Public Speaking | 3 | 0 | 0 | 3 |
| SRV | 240 | Topo/Site Surveying | 2 | 6 | 0 | 4 |
| | | Humanities/Fine Arts Elec | 3 | 0 | 0 | 3 |
| TOTALS | | | 9 | 12 | 0 | 13 |

TOTAL REQUIRED CREDITS.....65



Work-Based Learning Option: NA

2+2 Transfer: Students desiring to pursue a Bachelors of Technology should take MAT 271 and PHY 151.

Note: Students **may not** take an introductory foreign language to fulfill the Humanities/Fine Arts requirement.

Refer to the FTCC website for the most current information.
Go to www.faytechcc.edu and click on College Catalog.