

# PROGRAMS

## GEOMATICS TECHNOLOGY (C40420)

**Engineering and Technology Pathway:** These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

**Geomatics Technology:** 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, plane and geodetic surveying, 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.

### Certificate Program

		Course Hours Per Week		Semester Hours
First Semester (Fall)		Class	Lab	Credit
BPR-130	Print Reading-Construction	3	0	3
CEG-115	Intro to Tech & Sustainability	2	3	3
CEG-115A	Tech & Sustainability Lab	0	3	1
<b>Credit Hours</b>		<b>5</b>	<b>6</b>	<b>7</b>
Second Semester (Spring)				
CEG-111	Intro to Gis and Gnss	2	4	4
EGR-120	Eng and Design Graphics	2	2	3
<b>Credit Hours</b>		<b>4</b>	<b>6</b>	<b>7</b>
Third Semester (Summer)				
SRV-110	Surveying I	2	6	4
<b>Credit Hours</b>		<b>2</b>	<b>6</b>	<b>4</b>

	Course Hours Per Week	Semester Hours
Total Required Minimum Semester Hours Credit		18

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