

Associate in Applied Science

Surveying Technology

DAY PROGRAM (A40380)

For more information:

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Overview

The Surveying Technology curriculum provides training for technicians in many areas of surveying. Surveyors are involved in land surveying, route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other areas of property description and measurements.



Course work includes the communication and computational skills required for boundary, construction, route, and control surveying, photogrammetry, topography, drainage, surveying law, and subdivision design, with emphasis upon applications of electronic data

collection and related software including CAD.

Degree Awarded

The Associate in Applied Science Degree—Surveying Technology is awarded by the College upon completion of this program.

Career Opportunities

Surveying Technology graduates find jobs with the North Carolina Department of Transportation as well as with companies that do land surveying, commercial and residential development, land mapping and general and specialty contracting. Job titles include instrument person, survey party chief, survey supervisor, GPS technician and CAD operator.

Admission

- A high school diploma or equivalent (also available through CPCC) is required.
- CPCC placement tests are required for english and mathematics. Advance studies in mathematics and english courses are available for students to build basic skills and knowledge.
- A counseling/orientation appointment follows placement testing.
- Many courses have prerequisites or corequisites; check the Course Descriptions section of the catalog for details.

CURRICULUM

Fall Semester (Year 1)

			Lecture	Lab	Credit
CIS	111	Basic PC Literacy	1	2	2
		or			
CIS	110	Intro. to Computers	(2)	(2)	(3)
COM	110	Intro. to Communications	3	0	3
		or			
COM	231	Public Speaking	3	0	3
EGR	115	Intro. to Technology	2	3	3
ENG	111	Expository Writing	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3

Spring Semester (Year 1)

CIV	110	Statics/Strength of Materials	2	6	4
		or			
MEC	250	Statics and Strength of Materials	2	2	5
CIV	125	Civil/Surveying CAD	1	6	3
MAT	122	Algebra/Trigonometry II	2	2	3
SRV	110	Surveying I	2	6	4
		Technical Elective			3

Summer Semester (Year 1)

ENG	114	Prof. Research & Reporting	3	0	3
		or			
ENG	113	Literature-Based Research	(3)	(0)	(3)
		Humanities and Fine Arts	3	0	3
		Social/Behavioral Sciences	3	0	3

Fall Semester (Year 2)

CIV	211	Hydraulics and Hydrology	2	3	3
SRV	111	Surveying II	2	6	4
SRV	210	Surveying III	2	6	4
SRV	240	Topo/Site Surveying	2	6	4

Spring Semester (Year 2)

PHY	131	Physics—Mechanics	3	2	4
		or			
PHY	151	College Physics I	3	2	4
SRV	220	Surveying Law	2	2	3
SRV	230	Subdivision Planning	1	6	3
SRV	250	Advanced Surveying	2	6	4
		Technical Elective			3

Total Credit Hours

72 or 73

Technical Electives

CIS	115	Intro to Programming & Logic	2	3	3
CIV	212	Environmental Planning	2	3	3
CIV	215	Highway Technology	1	3	2
COE	112E	Co-operative Education	20 hrs work exp./wk		2
GIS	111	Introduction to GIS	2	2	3
GIS	112	Introduction to GPS	2	2	3
MAT	223	Applied Calculus	2	2	3
PHY	132	Physics—Elec. & Magnetism	3	2	4
PHY	152	College Physics II	3	2	4
SRV	260	Field and Office Practice	1	3	2

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FIRST STEP TO ENROLL:

Call Fred Gore
703-330-6756

*Consult a faculty advisor or
College Counselor prior to
registration.*

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ENGINEERING TECHNOLOGIES DIVISION
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SURVEYING TECHNOLOGY

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