Geographic Information Systems Technology

A Geographic Information System (GIS) is a powerful combination of mapping technology and databases, that, when combined, may create an array of spatially arranged data on a map surface for detailed analysis. Once the domain of a few specialized government agencies and the military, GIS is now utilized by virtually every branch of the government and has become commonplace throughout the private sector. GIS may be employed for a stunning variety of applications: environmental, marketing, demographic and urban planning are just a few of the fields in which GIS is currently utilized.

All students enrolled at Bluegrass Community and Technical College are eligible to pursue the GIS Technology Certificate. There is no application to enroll in the certificate, but it is suggested that if you elect to pursue the certificate that you inform the coordinator of the GIS Certificate as well as your technical advisor and the chair of your technical degree program. The curriculum is tailored to those enrolled in the following technical degree programs: Architectural Technology, Civil Engineering, Computer Information Systems and Environmental Science Technology. The acquisition of a two-year technical degree coupled with a Certificate in GIS Technology will make a graduate more marketable in his/her respective field. Those pursuing a B.A. or B.S. degree in geography will also find the curriculum tailored to their respective degree program.

The GIS Technology Certificate requires the completion of eighteen (18) credit hours of coursework. Non-certificate seeking students are free to take courses in GIS. All students pursuing the certificate must take the designated four core courses and technical electives.

Certificate

Geographic Information Systems Technology - 4507023029
(Offered at BLC)

Technical Core:

GIS	110	Spatial Data Analysis and Map Interpretation	3
GIS	120	Introduction to Geographic Information Systems	3
GIS	210	Advanced Geographic Information Systems	3
CIT	105	Introduction to Computers	3
		Technical Electives*	6
		Total Credits	**18**

Technical Electives*: Choose six (6) credits from the following Technical Elective Courses.

GEO	130	Earth's Physical Environment	3
GEO	162	Introduction to Global Environmental Issues	3
CIT	170	Introduction to Database Design	3
		Approved Level I or Level II CIT Programming Language Course	3
EST	160	Fundamentals of Hydrological Geology	3
EST	250	Fundamentals of Solid Waste Management	3
CAD	100	Introduction to Computer-Aided Design	3
CAD	200	Intermediate Computer-Aided Design	3
ACH	195	Computer-Aided Drafting I	3
ACH	180	Special Topics in Architectural Technology	3
ACH	298	Computer 3D Modeling	3
CET	150	Civil Engineering Graphics	3
CET	220	Intermediate Surveying	3