GEOGRAPHIC INFORMATION SCIENCE TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE DEGREE
Catalog 2008-2009

The Geographic Information Science Technology (GIST) program provides students with education in mapping and spatial database technology including GIS, GPS, remote sensing, and spatial analysis techniques. Instruction emphasizes application to variety of fields through hands-on learning with state-of-the-art hardware, software, and other mapping tools. Graduates may seek employment as GIS technicians, GIS specialist, or GIS Analysts with government and private industry that rely on geospatial information for managing resources, planning, transportation, emergency response, and other location-based services. Degree options include a one year Certificate and a two year Associate of Applied Science (AAS). The Certificate is appropriate for persons interested in developing skills in geospatial technologies to use in their current profession or for those seeking immediate employment as a technician. The AAS is designed to provide a more comprehensive education in GIST and is appropriate for students seeking employment as technicians and analysts.

				Credit Hours	Grade
1st Semester					
____	COSC	125	Business Microcomputer Applications	3	_____
____	ENGL	111	Freshman Composition **OR**		_____
____	ENGL	118	Technical Composition	3	_____
____	GEOG	145	Human Geography	3	_____
____	GIST	111	Introduction to Mapping Technology	4	_____
____	GIST	115	Map Use, Interpretation and Design	4	_____
				Total 17	
2nd Semester					
____	GEOG	155	Introduction to Physical Geography	4	_____
____	GIST	151	Geographic Information Systems I	4	_____
____	GIST	120	GPS and Surveying Methods	4	_____
____	MATH	185	College Algebra	3	_____
____	_____	___	Approved Elective* _____	3/4	_____
				Total 18-19	
3rd Semester					
____	COSC	185	Database Management Systems (Access)	3	_____
____	COSC	214	Visual Basic I **OR**		_____
____	COSC	118	Computer Programming Fundamentals I with C++	3	_____
____	GIST	201	GIS II	4	_____
____	GIST	230	Geographic Image Analysis	4	_____
____	SPCH	110	Public Speaking **OR**		_____
____	SPCH	111	Interpersonal Communication	3	_____
				Total 17	
4th Semester					
____	ENGL	218	Advanced Technical Composition	3	_____
____	GIST	250	Advanced Database Concepts	3	_____
____	GIST	270	Advanced GIS	4	_____
____	MATH	251	Statistics	4	_____
				Total 14	

Total credit hours required for this degree is **66-67**

***Approved Electives – Choose one from the following:**				**Credits**
____	BIOL	230	Environmental Conservation	4
____	COSC	190	Database Concepts and Design	3
____	COGR	160	Computer Graphics I	4
____	DRFT	150	Computer Aided Drafting (CAD)	4
____	GEOL	110	Introduction to Geology	4
____	RENG	270	Sustainable Development	3
____	SOCI	110	Introduction to Sociology	3

Optional Courses

GIST 295/299	*Special Topics	1-6 credits
GIST 285	*GIS Internship	3 credits
GIST 280	*Cooperative Education	3 credits