

**GEOGRAPHY**  
Associate of Science Degree  
Catalog 2009-2010

The Geography program provides students with education in a variety of geographic theory, digital mapping and spatial database technology including GIS, GPS, remote sensing, and spatial analysis techniques. Instruction emphasizes application to a 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 Specialists, or GIS Analysis 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 or a two year Associate of Science (AS). 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 AS is designed to provide a more comprehensive education in GIST and is appropriate for students seeking employment as technicians and analysts, or those wishing to transfer to a four-year degree program elsewhere.

				<b>Credit Hours</b>	<b>Grade</b>
<b>1st Semester</b>					
_____	ENGL	111	Freshman Composition	3	_____
_____	GEOG	112	World Regional Geography <b>OR</b>		_____
_____	GEOG	115	Map Use, Interpretation, and Design	4	_____
_____	GEOG	118	Introduction to Mapping Technologies	4	_____
_____	GEOG	145	Human Geography	3	_____
_____	MATH	185	College Algebra	<u>3</u>	_____
				Total	17
<b>2nd Semester</b>					
_____	GEOG	111	Introduction to Physical Geography	4	_____
_____	GEOG	120	GPS and Surveying Methods	4	_____
_____	GEOG	151	Geographic Information Systems I	4	_____
_____	_____	_____	Approved Social and Behavioral Science Elective*	3	_____
_____	_____	_____	Approved Humanities and Fine Arts Elective*	<u>3</u>	_____
				Total	18
<b>3rd Semester</b>					
_____	GEOG	251	Geographic Information Systems II	4	_____
_____	_____	_____	Approved Geography Elective (see next page)	3-4	_____
_____	MATH	251	Statistics	4	_____
_____	SPCH	110	Public Speaking		_____
_____	SPCH	111	Interpersonal Communications	3	_____
_____	_____	_____	Approved Social and Behavioral Science Elective* <b>OR</b>		_____
_____	_____	_____	Approved Humanities and Fine Arts Elective*	<u>3</u>	_____
				Total	17-18
<b>4th Semester</b>					
_____	_____	_____	Approved Geography Elective (see next page)	3/4	_____
_____	COSC	185	Database Management Systems	3	_____
_____	ENGL	211	Advanced Composition	3	_____
_____	_____	_____	Approved Social and Behavioral Science Elective*	3	_____
_____	_____	_____	Approved Humanities and Fine Arts Elective*	<u>3</u>	_____
				Total	15-16

Total credit hours required for this degree 67-69

\* See page 158, Area IV: Social and Behavioral Science and Area V: Humanities and Fine Arts, 2009-2010 San Juan College catalog.

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Geography Electives - pick two from the following choices:

_____	COSC	118	Computer Programming Fundamentals I with C++	3
_____	COSC	214	Visual Basic I	3
_____	DRFT	150	Computer Aided Drafting (CAD)	4
_____	GEOG	125	Weather and Climate	3
_____	GEOG	130	Natural Hazards	3
_____	GEOG	135	Energy and Natural Resources Geography	3
_____	GEOG	140	Geography of the Four Corners	3
_____	GEOG	230	Geographic Image Analysis	4
_____	GEOG	280	Cooperative Education	3
_____	GEOG	285	GIS Internship	3
_____	GEOG	295	GIS Topics	1-6
_____	GEOG	299	GIS Special Problems	1-6
_____	GEOL	110	Introduction to Geology	4