



## **GEOGRAPHY/GEOGRAPHIC INFORMATION SYSTEMS (GIS)**

### **Itasca Community College**

**Degree: Associate of Science (with MnTC completion)**

**Length: 60 semester credits**

The Geography/Geographic Information Systems (GIS) Program is designed to provide individuals with a background in geography, spatial processes, mapping techniques, and the ability to manage and utilize geographic information as a planning and decision-making tool. The program guides the student in developing a sound approach to geographic inquiry and analysis, and provides the opportunity for students to explore the diverse political, economic, social and environmental interrelationships at local, regional and global scales. Embedded in this interdisciplinary science, is a focus on the technical components of mapping, cartographic analysis and production, and the use of state of the art GIS, global positioning systems, and remote sensing software for advanced level data acquisition, integration and spatial analysis. The program maintains articulation agreements with Bemidji State University and the University of Minnesota-Duluth, which facilitates the transfer of ICC credits and allows ample time to complete an additional minor.

The following minimum requirements must be completed:

1. Specific program requirements
2. Grade Point Average of 2.0 and MnTC grade point average 2.0
3. Completion of 40 credit Minnesota Transfer Curriculum (MnTC)
4. A minimum of 20 credits must be completed at Itasca Community College

<u>Fall Semester</u>			
Geog	1201	Map Use, Analysis & Interp.	3
Engl	1101	Composition I	4
Geog	1101	Physical Geography	3
Goal	6	Humanities/Fine Arts (Area A)	3
			13

<u>Spring Semester</u>			
* Geog	1204	Principles of GIS	3
Goal	5	Hist. & Social/Behavioral Science	3
Goal	6	Humanities/Fine Arts (Area B)	3
Engl	1105	Technical Research Writing	3
Geog	1108	Cultural Geography	3
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<u>Fall Semester</u>			
Spch	1101	1105 or 1111	3
Goal	4	Math 1101 or higher	3
Goal	1-10	General Education	3
Geog	1300	Weather & Climate	4
			13

<u>Spring Semester</u>			
** Geog	1206	Cartography	3
** Geog	2104	Modeling Techniques in GIS	3
Goal	6	Humanities/Fine Arts	3
Geog	1104	World Regional Geography	3
Geog	2107	Remote Sensing	3
*** Geog	2113	GIS Applications (alt summer)	1
*** Geog	2201	GIS Internship (alt summer)	3
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\* Prerequisite: TBD

\*\* Prerequisite: Geog 1204 (Principles of GIS)

\*\*\* Geog 2113 and 2201 are also offered during summer session