

Geographic Information Systems

Offered at MCC-Maple Woods and MCC-Longview

Geographic Information Systems
Certificate 34-40 Credits

This is a professional certificate that gives the GIS user the tools needed to obtain a good job in the field of GIS or to advance in their chosen field. It also prepares students to complete their AA degree or transfer to a four-year institution. GIS professionals are found in the fields of city, county and state government, economics, natural resources, conservation, pollution, industry, science, infrastructure planning, public works, transportation, architecture, education, healthcare, travel, and space industry.

Geographic Information Systems Certificate

305200 Revised 11/2011 (Spring 2012)

Specific Program Requirements	Credits	Semester Taken	Prerequisites
COLL 100 First Year Seminar	1		
ENGL 101 Composition and Reading I	3		ENGL 30 or appropriate placement test score
GEOG 120 Introduction to Geographic Information Systems	3		
GEOG 220 GIS Database and Design	3		GEOG 120
GEOG 224 Applications in Geographic Information Systems	3		GEOG 120 and 220
GEOG 228 Administrative Issues in GIS	3		GEOG 120
GEOG 230 Geographic Information Systems Internship	1-3		GEOG 120 and 220
<i>One of the following:</i> CSIS 128 Web Development CSIS 143 Database Design and Management CSIS 177 Database Application and Design with Access	3		CSIS 110 or 115 (CSIS 128) CSIS 110 or 115 (CSIS 143) One Windows based course (CSIS 177)
<i>One of the following:</i> GEOG 105 World Geography GEOG 113 Cultural/Human Geography GEOG 114 Introduction to Geography GEOG 207 Geography of the United States and Canada GEOG 210 Economic Geography	3		
<i>One of the following:</i> GEOG 104 Physical Geography GEOL 101 Physical Geology GEOL 103 Environmental Geology	5		
<i>Two courses from the following (not taken above):</i> BIOL 101, 104, 106, 117 BSAD 204, 205, 210, 211, 212, 213 CSIS 128, 143, 177 CRJU 101, 112, 132 ETEC 152, 169 ECON 110, 210, 211 GEOG 104, 105, 110, 113, 114, 207, 210 GEOL 101, 103 SRVY 135, 137, 240	6-10		See Courses section of this catalog for individual course prerequisites.
Total Credit Hours Required	34-40		

Non-Degree Related Courses _____

Advisor/Counselor/Evaluator _____ Date _____

_____ Hrs Earned _____ MCC GPA _____ Hrs Enrolled _____ Hrs in Res _____ Hrs Needed

TO GRADUATE THE STUDENT MUST SUCCESSFULLY COMPLETE THE FOLLOWING:

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| _____ Apply for Graduation | _____ Additional courses to meet total credit hour requirement (including current coursework) |
| _____ Missouri Constitution Requirement | _____ Any course substitutions/waivers must be approved using an "Student Exception to Graduation" form |
| _____ Raise/Maintain GPA to 2.0 | |
| _____ Additional courses to meet the 15 credit hour residency requirement | |