

**Geosciences B.S. Degree**  
**Emphasis in Geographical Information Systems**  
**(GIS)**  
**New Curriculum**

Name \_\_\_\_\_

Date \_\_\_\_\_

Transferred From \_\_\_\_\_

Semester Hours Accepted \_\_\_\_\_

<b>MSU / A&amp;S Core Courses</b>	# credit hours	semester	grade
<b>Mathematics</b> (see Geosciences Core)			
<b>Composition</b>	<b>6</b>		
EN 1103 English Composition I			
EN 1113 English Composition II			
<b>Humanities</b>	<b>6</b>		
EN 2__3 English Literature			
HI ____ History elective			
<b>Foreign Language</b>	<b>6</b>		
FL 1113 Foreign Language (elementary)			
FL 1123 Foreign Language (elementary)			
<b>Public Speaking</b> (see Geosciences Core)			
<b>Fine Arts</b>	<b>3</b>		
__ ____ Fine Arts elective			
<b>Social Sciences</b>	<b>6</b>		
GR 1123 World Geography			
__ ____ Social Science elective			
<b>Natural Sciences</b> (see Geosciences Core)			
<b>Total MSU / A&amp;S Core</b>	<b>27</b>		

<b>Geosciences Core Courses</b>	# credit hours	semester	grade
<b>Basic courses</b>	<b>7</b>		
GG 1113 Earth Science (+ GG 1111 lab)			
OR GR 1114 Physical Geography (w/lab)			
CO 1003 Fundamentals of Public Speaking*			
or See Advisor			
<b>Total Geosciences Core</b>	<b>7</b>		

<b>Geographical Information Systems</b>	# credit hours	semester	grade
<b>Department Courses</b>	<b>34</b>		
GG 4433 Geowriting*			
GR 1603 Intro. To Meteorology			
GR 2313 Maps and Remote Sensing			
GR 3113 Conservation of Natural Resources			
GR 3303 Survey of Geospatial Technology			
GR 3311 Geospatial Technologies			
GR 3313 Intro to Geodatabases			
GR 4303 Principles of GIS			
GR 4313 Advanced GIS			
GR 4323 Carographic Sciences			
GR 4333 Remote Sensing of the Physical Environment			

GR 4990 GIS Senior Research (3 hrs)			
<b>12 hours 4000 level electives</b>	<b>12</b>		
__ 4__ Departmental Elective			
__ 4__ Departmental Elective			
__ 4__ Departmental Elective			
__ 4__ Departmental Elective			
CSE 1284 Intro Computer Programming			
ECE 4423 Intro to Remote Sensing			
ST 3113 Intro to Statistical Inference			
<b>2 of the following</b>	<b>6</b>		
GG 1133 Planetary Geology			
GG 3133 Environmental Geology			
GG 3603 Intro to Oceanography			
GG 3613 Water Resources			
GG 4523 Coastal Environments			
GR 4823 Natural Hazards			
<b>3 of the following</b>	<b>8 - 9</b>		
GR 4633 Statistical Climatology			
WF 4253 Applications of Spatial Tech to Wildlife & Fisheries Mgt			
ABE 3513 The GPS and GIS in Ag Eng			
ST 4213 Nonparametric Methods			
PSS 4373 Geospatial Agronomic Mgt			
PSS 4411 Remote Sensing Seminar			
FO 4313 Spatial Tech in Natural Resource Mgt			
FO 4452 Remote Sensing Applications			
<b>Mathematics (University and College Core)</b>	<b>6</b>		
MA 1313 College Algebra			
MA 1323 Trigonometry			
<b>Natural Sciences (University and College Core)</b>	<b>9 - 12</b>		
6 - 9 hours Physical Sciences w/lab (CH, PH, BIO)			
3 hours Physical Sciences w/out lab (CH, PH, BIO)			
<b>General Electives</b>	<b>4 - 5</b>		
<b>Total Concentration Hours</b>	<b>73 - 84</b>		

**Total Degree Hours Required**

**124**