

# Geographic Information Science Minor

## GEOGRAPHIC INFORMATION SCIENCE MINOR REQUIREMENTS (16 credits)

All courses required for the Geographic Information Science minor *must* be taken on an *A-B-C-D-F* basis. A grade of *C-* or better is required for all WATS courses used to meet requirements for this minor.

### A. Watershed and Earth Resources Core Courses (8 credits)

<b>Must complete all of the following:</b>		<b>Sem.</b>	<b>Cr.</b>	<b>Usual Start Time</b>	<b>Prerequisite</b>
<input type="checkbox"/> GEOG 1800	Introduction to Geographic Information Sciences	F	3	MWF 9:30	
<input type="checkbox"/> WATS 4930	Advanced GIS & Spatial Analyses	Sp	3	TR 10:30	<input type="checkbox"/> GEOG 1800
<input type="checkbox"/> WATS 4931	GIS Research Projects	Sp	2	TR 10:30	<input type="checkbox"/> GEOG 1800
<input type="checkbox"/> WILD 6900	ST: GIS Programming with Python	Sp	2	W 2:00-4:00	<input type="checkbox"/> Permission of instructor

### B. Electives (8-10 credits)

Select three courses from the following:

<input type="checkbox"/> BIOL 4040	Programming and Database Management for Biologists	F	3	MWF 1:00	
<input type="checkbox"/> CEE 2240	Engineering Surveying	F	3	TR 1:30	<input type="checkbox"/> ACT Math score of 27 or higher or credit for MATH 1050 and MATH 1060. Enrollment limited to students having majors within the College of Engineering or Permission of instructor.
<input type="checkbox"/> CEE 6440	Geographic Information Systems in Water Resources	F	3	TR 11:30 and F 11:30-12:30	<input type="checkbox"/> Permission of instructor
<input type="checkbox"/> ECE 5930	ST: Small Satellite Imagery Design	Sp	3	MWF 12:30	
<input type="checkbox"/> PSC/CEE 5003	Remote Sensing of Land Surfaces	Sp	4	MWF 2:00 Lab W 3:00-4:50	<input type="checkbox"/> MATH 1100 or MATH 1210 <input type="checkbox"/> PHYS 2110 or PHYS 2210
<input type="checkbox"/> WATS 6900	Special Topics courses - See current offerings. Receive advisor approval before enrolling in these courses. Example of courses offered: River Bathymetry Toolkit, Geomorphic Change Detection	Su	1		<input type="checkbox"/> Permission of instructor
<input type="checkbox"/> WILD 5750	Applied Remote Sensing	F	3	MWF 9:30	