

Geographic Information Science Minor

Effective for students beginning degree Summer 2018

GEOGRAPHIC INFORMATION SCIENCE MINOR REQUIREMENTS (16-20)

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

A. Required Core Courses (10 Credits)

Must complete all of the following:		Sem.	Cr.	Prerequisite
GEOG 1800/ WILD 1800	Introduction to Geographic Information Sciences	F, Sp	3	
WATS 4930	Advanced GIS and Spatial Analysis	Sp	3	GEOG/WILD 1800
WATS 4931	GIS Research Projects	Sp	2	GEOG/WILD 1800
WILD 4950	ST: Python for ArcGIS	Sp	1	Permission of instructor
WILD 4950	ST: Python for GIS Project	Sp	1	Permission of instructor

B. Electives (6-10 Credits)

Select two or more courses from the following (or propose (a) substitute course(s) with a strong geospatial analysis component to GIS Minor advisor):

GEOG 3800	Data Visualization	F	3	STAT 1040, GEOG/WILD 1800
GEOG 4870	Geospatial Analysis with R	Sp	3	GEOG 1800
WILD 4950	ST: Python for Open Source GIS	F	1	Permission of instructor
WILD 5750	Applied Remote Sensing	F	3	Permission of instructor
WATS/WILD/ENVS 4950	Directed Readings	F, Sp, Su	3	Willing Instructor/Advisor & permission of GIS minor Advisor (must be focused on geospatial analysis)
WATS/WILD/ENVS 4970	Undergraduate Research	F, Sp, Su	3	Willing Instructor/Advisor & permission of GIS minor Advisor (must be focused on geospatial analysis)
WATS 6850	Geomorphic Change Detection	Sp	1	
WATS 6900	Special Topics Courses - See current offerings. Receive advisor approval before enrolling in these courses. Example of courses offered: River Bathymetry Toolkit, Prioritizing Conservation	Sp		Permission of instructor
CEE 2240	Engineering Surveying	F	3	ACT Math Score of 27 or higher or credit for MATH 1050 and 1060. Enrollment limited to students having majors within the College of Engineering or Permission of instructor.
CEE 6440	Geographic Information Systems in Water Resources	F	3	Permission of instructor
ECE 5930	Special Topics in Electrical and Computer Engineering	F, Sp, Su		Permission of instructor
ENVS 4100	Introduction to Modeling Human-Environment Systems	Sp	4	ENVS 2340 & ENVS 3500 Taught in even-numbered years
PSC/CEE 5003	Remote Sensing of Land Surfaces	Sp	4	MATH 1100 or 1210, PHYS 2110 or 2210