

# GEOGRAPHIC INFORMATION SYSTEMS AND SCIENCE (UNDERGRADUATE CERTIFICATE)

## Program of Study

Code	Title	Credit Hours
<b>Required Curriculum</b>		<b>7</b>
A grade of B or better is required in each course		
GEOG 2215	Introduction to the Geographic Information Systems	3
GEOG 5215U	Advanced Geographic Information Systems	4
<b>Elective Curriculum</b>		<b>9-11</b>
A grade of B or better is required in each course		
GEOG 3828	GIS Module Independent Study	4
GEOG 4615	Internship (offered through negotiated contract) <sup>3</sup>	1-3
ENVS 5235U	Geographic Information and Global Positioning Systems <sup>5</sup>	4
DATA 1501	Introduction to Data Science	3
BUSA 2100	Introduction to Information Systems in Business	3
	or MISM 2115	
Additional GIS - oriented courses approved by the certificate coordinators as they become available will be suitable as elective coursework.		

<sup>3</sup> There are specific obligations to GEOG 4615 Internship that must be met for the internship, paid or unpaid, to qualify for credit.

<sup>4</sup> As examples of additional GIS course work that would qualify, the department is currently considering extending the GIS curriculum to include a remote sensing class and a GIS programming class.

<sup>5</sup> Can be used to replace GEOG 2215 as a required course for students in the MS Environmental Science program.

Prerequisites: GEOG 2215 Introduction to the Geographic Information Systems offered in Fall and Spring Semesters