

**PROGRAM COURSE CHECKLIST****MINOR: GIS AND SPATIAL ANALYSIS**

<b>Total of 18 Credits</b>		<b>Credits</b>	<b>Semester Taken</b>
<b>GIS Requirements (9 credits)</b>			
EGGS 242	Mapping and GIS Fundamentals*	3	
EGGS 360	Principles of GIS I	3	
EGGS 361	Principles of GIS II	3	
<b>GIS Electives: Choose at least 2 (6 credits)</b>			
EGGS 320	Remote Sensing of the Earth	3	
EGGS 325	UAV Applications	3	
EGGS 364	Digital Cartography	3	
EGGS/CRJ 370	GIS for the Social Sciences	3	
EGGS 381	Programming in GIS	3	
EGGS 410	Advanced Environmental Applications of GIS	3	
EGGS 440	Advanced Topics in GIS	3	
<b>Electives: Choose at least 1 (3 credits)</b>			
EGGS 160	Digital Earth*	3	
EGGS 275	Introduction to Surveying	3	
CMSC 115	Python Programming*	3	
CMSC 120	Object-Oriented Programming with Java	4	
CMSC 125	Fundamentals of Web Development	3	
CMSC 150	Principles of Database Design	3	
ENGT 180	Computer Aided Design and Engineering Graph.	3	
GRDS 200	Introduction to Graphic Design	3	
ITD 470	Introduction to Website Development	3	
VR 200	Introduction to Virtual and Augmented Reality*	3	

\* GENERAL EDUCATION COURSE