

**DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL STUDIES  
ACADEMIC COURSE RECORD**

**GEOGRAPHIC INFORMATION SCIENCE CERTIFICATE (G905)  
GRADUATE LEVEL**

**STUDENT NAME:** \_\_\_\_\_

**STUDENT ID #:** \_\_\_\_\_

COURSE NUMBER AND TITLE	TAKEN AT NEIU	IN PROGRESS (P) NEED (N)	CREDIT HOURS	GRADE	COURSE SUBSTITUTIONS: Course #/ Title (w/ Chair's approval)	FOR COURSE SUBSTITUTIONS: WHERE TAKEN	ADVISOR'S INITIAL APPROVAL
<b>REQUIRED COURSES</b>							
GES 391* or GES 491: Introduction to GIS							
GES 392* or GES 492: Geospatial Analysis							
GES 393* or GES 493: GIS Modeling & Prgrmg							
GES 442: Geog Prob Quan Meas							
<b>ELECTIVES (two of the following)</b>							
GES 387* or GES 487: Interactive Cartography							
GES 390* or GES 490: Rem Sens & Dig Im Proc							
GES 416: GIS for Natural Systems Mngmt							
GES 417: Urban Information Systems							

*\*Students must complete all courses for graduate credit to satisfy the requirements of the Graduate GIS Certificate.*

**DATE:** \_\_\_\_\_

**Total Hours Required: 18**

**SIGNATURE:** \_\_\_\_\_  
GIS Coordinator

Student completes form prior to graduation. The Department's GIS Coordinator must initial courses which complete the degree, and sign the form. No D's are allowed.