Update for the new Geographic Information Sciences Major that will be available for students Spring of 2020:

**GEOGRAPHIC INFORMATION SCIENCES (GIS) MAJOR (36 HOURS)**

**Specialized General Studies Requirements**

*Area II (12 hours)*
- COM 2241 (3) Fundamentals of Speech

*Area III (12 hours)*
- MTH 1114 (3) Pre-Calculus Trigonometry
- SCI 2233 (3) Physical Science
- SCI L233 (3) Physical Science Lab

*Area V (18 hours)*
- IS 2241 (3) Computer Concepts and Applications
- TROY 1101 (1) Orientation
- MTH 2210 (3) Applied Statistics
- BIO 1120 (3) Survey of Environmental Sciences
- BIO L120 (1) Survey of Environmental Sciences Lab
- CS 3310 (3) Foundations of Computer Sciences
- SS 3375 (3) Introduction to Social Science Inquiry

**Major Requirements (36 hours)**
- GEO 3300 (3) Principles of Physical Geography
- GEO 3301 (3) Principles of Cultural Geography
- GIS 3301 (3) Cartography and Geo-Visualization
- GIS 3305 (3) Spatial Information and Analysis
- GIS 3310 (3) Introduction to Remote Sensing
- GIS 3390 (3) Fundamentals of Geographical Information and Analysis
- GIS 3391 (3) Application of Geospatial Information Sciences
- GIS 4401 (3) Spatial Database Design and Management
- GIS 4405 (3) Geospatial Modeling and Programming
- GIS 4415 (3) Advanced Geospatial Technologies
- GIS 4420 (3) Web-Based GIS/Spatial Data Applications
- GIS 4499 (3) GIS Internship

*Senior standing students may choose the following course for credit:*
- GIS 4490 (3) GIS Senior Project

**Additional Requirements:**
*Students must complete an 18-hour minor for this major*