GEOGRAPHY & ENV PLANNING (GE)
GE 4060  GIS Programming (4)
Geographic Information Systems (GIS) programming and the development of algorithms for spatial analysis. Focuses on concepts, principles, and techniques of programming to solve a variety of geographic problems. Covers the concepts, methods, and approach to object-oriented programming and GIS solutions to automate geoprocessing tasks to explore, handle, manipulate, and model spatial data. Fall of odd years.
Prerequisite(s): GE 2050.

GE 4100 Geographic Information Systems Internship (1-4)
Students engage in an individualized Geographic Information Systems (GIS) work program in government, business, non-profit, educational or other related organizations which emphasizes some aspects of GIS application to their field(s) of study. Repeatable for a maximum of 4 credits. Falls and Springs.
Prerequisite(s): GE 2050 and permission of the instructor.

GE 4110 Topics in Regional Geography (3)
Introduces students to 1 of the many regions of the world outside the United States. Examples might include formal regions such as a continent or a large nation, a functional region such as the Mediterranean or East Asia, or cultural regions such as the Arab world or Latin America. The emphasis is on the geographic and cultural diversity of the region. Fall of even years and Spring of odd years. (GACO) (WRCO)

GE 4120 Topics in Human Geography (3)
Introduces students to 1 of the fields of Human Geography. Examples might include Cultural Geography, Social Geography, Economic Geography, Medical Geography, the Geography of Religion, or the Geography of Sport. Fall of odd years.

GE 4140 Topics in Geographic Techniques (3)
Introduces students to geographic techniques used in Geography and related fields such as Environmental Planning or the natural sciences. Examples might include topics in Advanced Geographic Information Systems, Geographic Information Sciences, Geomatics, Geodetics, Remote Sensing, Air Photo and Satellite Data, or Surveying.

GE 4150 Topics in Geography (3)
A methodological study of the spatial aspect of such selected topics as the geography of sports, landforms education and map-making.

GE 4910 Independent Study (1-3)
Background in geography through reading and research, supplementing previous course work in the field. A research paper, periodic conferences and an oral examination may be required. Consent required of the instructor who will supervise the independent study and the Department Chair.