Submitted by: Stephen Hanna  
Date Prepared: 10/16/13

Department/Discipline and Course Number: Geography, GISC 540

Course Title: Modeling and Spatial Statistics

Type of change (check all applicable):
Course Number*  X  Title  Credits  Description  X  Prerequisites  X  Deletion

*This course number must be approved by the Office of the Registrar before the proposal is submitted.

Effective Date: FALL Semester, Year Fall 2014

<table>
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<tr>
<th>Current Catalog Entry</th>
<th>Proposed Catalog Entry</th>
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<tr>
<td>GISC 540 Modeling and Spatial Statistics: This course focuses on the application of statistics and spatial models in GIS. It will cover concepts of quantitative methods, the use of statistical procedures in problem solving, and applications of quantitative methods and spatial analysis throughout a series of geographic problems. Topics include: point pattern analysis, areal data analysis, MAUP, gravity models, spatial autocorrelation, geostatistics (i.e., variograms and kriging) and network analysis (4 credits).</td>
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<tr>
<td>MSGA 540 Modeling and Spatial Statistics: Laboratory. This course focuses on the application of statistics and spatial models in GIS. It will cover concepts of quantitative methods, the use of statistical procedures in problem solving, and applications of quantitative methods and spatial analysis throughout a series of geographic problems. Weekly laboratory assignments will provide practical experience. Topics include: point pattern analysis, areal data analysis, MAUP, gravity models, spatial autocorrelation, geostatistics (i.e., variograms and kriging) and network analysis (4 credits).</td>
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JUSTIFICATION (including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required)

Changing the prefix of each course number clarifies that these courses comprise the curriculum of the masters of science in geospatial analysis (MSGA) program and that they are not a part of the existing GISC curriculum. The program proposal being considered by SCHEV uses the MSGA course numbers. Description change addresses concerns raised by SCHEV staff. Specifically, they wanted description to specifically state it is a laboratory class and that laboratory assignments will include programming.

TRANSITION PLAN (describe how will students who are in Catalogs where the course is required for a major be accommodated; attach additional pages if required)

NA

Approvals

Department Chair  __Stephen P. Hanna  ________  Date:  10/16/13

College Curriculum Chair  _____ Tim ODonnell  ________  Date:  __10-23-13__

Expedited course changes are posted for a 10-class day comment period. If no comments are raised during that time, the proposal becomes final. All expedited proposals approved in this way will be noted on the UCC web site.

If comments are raised, the proposal may be reviewed by the UCC and then approved or it may be returned to the CCC for additional deliberation (as required).

Expedited Course Change Cover Sheet (July 2013)