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October 25, 2012

TO: Undergraduate Programs Committee
FROM: Russ Ivy 
Chair, Geosciences
RE: GIS Certificate and Advanced GIS Certificate

The Department of Geosciences faculty have voted to

- 1) Make changes to the GIS Certificate requirements. The certificate program currently has 3 courses that are required with a fourth course coming from a menu of 4 courses. We have found that students who do not choose GIS 4037C as their 4th course are sometimes disadvantaged in developing rudimentary skills in GIScience. Therefore we are streamlining the program to make the 4th course required (GIS 4037c) instead of from a menu. This will not create bottlenecks in finishing the certificate program as GIS 4037C is offered every semester.
- 2) Drop the current Advanced GIS Certificate in lieu of the development of a graduate level GIS certificate (under development)

Monday, October 08, 2012

MEMO: Revision of Undergraduate GIS Certificates

Dear College and University Curriculum Committee:

The GIS Curriculum Committee in the Geosciences Department recommends the following changes to the undergraduate GIS Certificate program: revision of the requirement for Certificate in Geographic Information Systems, and removal of the Advanced Certificate in Geographic Information Systems. The Changes have been approved by the faculty in the Geosciences Department.

Attachments A: the proposed Catalog for Revised GIS Certificate

Attachments B: the current Catalog

Attachment A: CATALOG for Revised Certificate

The Department of Geosciences offers an **Undergraduate Certificate in Geographic Information Systems**. Students who complete the programs with a grade of "C" or better in each course are entitled to the Certificates. Students should consult with their departmental advisor or another faculty member about registration for these programs. Students may use these courses in the completion of a major.

Undergraduate Certificate in Geographic Information Systems

Introduction to Mapping and GIS	GIS 3015C	3
Principles of GIS	GIS 4043C	3
Remote Sensing of the Environment	GIS 4035C	3
Digital Image Analysis	GIS 4037C	3

Attachment B: Current catalog on GIS Certificates

The Department of Geosciences offers undergraduates a Certificate in Geographic Information Systems and an Advanced Certificate in Geographic Information Systems. Departmental majors or other students who complete the programs with a grade of "C" or better in each course are entitled to the GIS Certificates. Students should consult with their departmental advisor or another faculty member about registration for these programs. Students may use these courses in the completion of a major.

Certificate in Geographic Information Systems

Required Courses		
Introduction to Mapping and GIS	GIS 3015C	3
Remote Sensing of the Environment	GIS 4035C	3
Principles of GIS	GIS 4043C	3
Choose one course from the following list:		
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C	3
Digital Image Analysis	GIS 4037C	3
Applications in GIS	GIS 4048C	3
Geovisualization and GIS	GIS 4138C	3

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Advanced Certificate in Geographic Information Systems

The Advanced Certificate in Geographic Information Systems allows students to develop an in-depth understanding of programming and spatial data analysis through two required courses, and it allows them to expand their expertise in one additional applied area of Geographic Information Science. The requirements for completing the advanced certificate are: the GIS certificate plus the two required courses and one additional course from the list below.

Required Courses		
Programming in GIS	GIS 4102C	3
Spatial Data Analysis	GEO 4167C	3
Choose one of the following applied courses:		
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C	3
Digital Image Analysis	GIS 4037C	3
Transportation and Spatial Organization	GEO 4700	3
Geovisualization and GIS	GIS 4138C	3