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SR-16-17-21 CC

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CURRICULUM COMMITTEE RECOMMENDATION

SR-16-17-21 CC

NOTE: The curricular form for each item listed may be accessed at www.marshall.edu/senate/ucc. Click the UCC Agendas/Minutes link; click the link for the November 11, 2016 meeting date; click the link in the Description column to open a particular item.

Recommends approval of the listed UNDERGRADUATE MINOR CHANGES in the following colleges and/or schools/program: COLLEGE OF LIBERAL ARTS

- **COLLEGE OF LIBERAL ARTS:**

*Name of Minor: GIScience

*Within which Major is/will this minor be listed: Geography

*Rationale:

Change of courses: Delete IST160 Introduction to Programming (3 credits) and add IST150 Spreadsheet and Database Principles (3 credits) as more appropriate at the request of the IST department.

Addition of courses:

- IST491 Senior Project II (3 credits). Because Senior Projects vary in emphasis, the adviser of IST491 determines if the Senior Project meets the requirements of GIScience for a particular student.
- GE0440 Spatial Statistics and GIS (4 credits). The course has changed and expanded to include significant GIS and GIS-related content.
- GEO 113 Web GIS (1 credit).
- GE0498 and GE0499 Senior Capstone I and II (4 credits total). Because Senior Capstone Projects vary in emphasis, the adviser of GE0498/499 determines if the Senior Capstone Project meets the requirements of GIScience for a particular student.
- Independent study courses in any department could count for GIScience credit. Because Independent study courses vary in emphasis, the department and/or adviser, in consultation with the GIScience Curriculum Committee, determines if an Independent study course meets the requirements of GIScience for a particular student.

New required course in remote sensing: Students choose one course from BSC410, BSC411, GE0431, or PLS433, for 3-4 credit hours. Since remote sensing is a core analytical technology in addition to Geographic Information Systems, students with a minor should have experience with both technologies.

Adjust list of GIScience Curriculum Committee members: Faculty and staff come and go.

Add information about the Administrative Home of the program: Directs students, faculty and staff to the director of the program for more information.

New description based on the proposed changes:

Geospatial Information Science is a research field that utilizes specialized computer hardware, software, and procedures for the capture, presentation, and analysis of all types of natural and social science data referenced (mapped) to the earth's surface. The minor program provides knowledge, training, applications, and research skills for successful careers or graduate work

- GEO 432 Enterprise GIS (3 hrs.)
- GEO 433 GPS and Mobile Geospatial Technologies (3 hrs.)
- GEO 440 Spatial Statistics and GIS (4 hrs.)
- GEO 490 Internship (1-6 hrs; must be GIScience approved by adviser to qualify)
- GEO 498-499 Senior Capstone I and II (4 hours; must be GIScience approved by adviser to qualify)
- GLY 212 Geological Field Mapping (2 hrs.)
- IST 150 Spreadsheet and Database Principles. (3 hrs.)
- IST 160 Introduction to Programming (3 hrs.)
- IST 322 Terrestrial Systems (4 hrs.)
- IST 323 Aquatic Ecology (4 hrs.)
- IST 365 Database Information Management (3 hrs.)
- IST 423 GIS and Data Systems (4 hrs.)
- IST 428 CAD and Terra Modeling (3 hrs.)
- IST 470 Internship (1-4 hrs.; must be GIScience approved by adviser to qualify)
- IST 491 Senior Project II (3 hrs.; must be GIScience approved by adviser to qualify)
- MIS 340 Database Management Systems (3 hrs.)
- PLS 433 GIS and Remote Sensing for Natural Resource Management (3 hrs.)
- Special Topics courses as approved by the GIScience Curriculum Committee
- Independent Study courses as approved by the student's adviser in consultation with the GIScience Curriculum Committee

<http://www.marshall.edu/senate/ucc/archives/GIScience.pdf>

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE:

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DATE: 1/24/17

DISAPPROVED BY THE
FACULTY SENATE:

_____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:

Jerome A. Jilka

DATE:

1-29-17

DISAPPROVED:

_____ DATE: _____