

1-24-2017

SR-16-17-20 CC

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Recommended Citation

Marshall University, "SR-16-17-20 CC" (2017). *Recommendations*. 1782.
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CURRICULUM COMMITTEE RECOMMENDATION

SR-16-17-20 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 CERTIFICATE CHANGES in the following colleges and/or schools/program: COLLEGE OF LIBERAL ARTS

- **COLLEGE OF LIBERAL ARTS:**

***Name of Certificate Program:** GXL6-Geospatial Information Science

***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.
- GE0113 Web GIS (1credit).
- 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 certificate should have experience with both technologies.

Adjust list of G/Science 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

- GEO 431 Principles of Remote Sensing and Photogrammetry (3 hrs.)
- GEO 432 Enterprise GIS (3 hrs.)
- GEO 433 GPS and Mobile Geospatial Technologies (3 hrs.)
- GE0440 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 hrs.; 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.)
- IST322 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/GXL6.pdf>

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE:

Paige Muellerleile

DATE: 1/24/17

DISAPPROVED BY THE
FACULTY SENATE:

_____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:

James A. Smith

DATE:

1-29-17

DISAPPROVED:

_____ DATE: _____