



New Program Report

Date Submitted:

12/14/2018

Institution

Northwest Missouri State University

Site Information

Implementation Date:

7/1/2019 12:00:00 AM

Added Site(s):

Selected Site(s):

Online, 800 University Drive, Maryville, MO, 64468

CIP Information

CIP Code:

450702

CIP Description:

A program that focuses on the systematic study of map-making and the application of mathematical, computer, and other techniques to the analysis of large amounts of geographic data and the science of mapping geographic information. Includes instruction in cartographic theory and map projections, computer-assisted cartography, geographic information systems, map design and layout, photogrammetry, air photo interpretation, remote sensing, spatial analysis, geodesy, cartographic editing, and applications to specific industrial, commercial, research, and governmental mapping problems.

CIP Program Title:

Geographic Information Science and Cartography

Institution Program Title:

Geographic Information Science, Non-Thesis Option M.S.

Degree Level/Type

Degree Level:

Master Degree

Degree Type:

Master of Science

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Online

Student Preparation



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Special Admissions Procedure or Student Qualifications required:

1. Students must currently pursue a BS in GIS or Geography at NWMSU
2. Students apply after completion of 60 credit hours and no later than the beginning of their final semester of UG
3. Students must submit transcripts, writing sample, and recommendation from a faculty member in a relevant discipline
4. Students must have minimum GPA of 3.0, and minimum major GPA of 3.3. Lower GPAs may be considered for conditional admission
5. Applicants must satisfy all other Graduate School requirements

Specific Population Characteristics to be served:

High quality undergraduate majors in Geographic Information Science or Geography who have high potential for success in the graduate program.

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:

Ph.D. degree with emphasis in Geographic Information Science or related geospatial technologies

Estimate Percentage of Credit Hours that will be assigned to full time faculty:

100% assigned to full time faculty

Expectations for professional activities, special student contact, teaching/learning innovation:

No additional expectations beyond the normal expectations for full time faculty

Student Enrollment Projections Year One-Five

Year 1	Full Time: 1	Part Time: 0	
Year 2	Full Time: 2	Part Time: 0	
Year 3	Full Time: 2	Part Time: 1	Number of Graduates: 3
Year 4	Full Time: 2	Part Time: 2	
Year 5	Full Time: 2	Part Time: 2	Number of Graduates: 7

Percentage Statement:

n/a

Program Accreditation

Institutional Plans for Accreditation:

There are no nationally recognized accrediting organizations for graduate programs in Geographic Information Science.

Program Structure

Total Credits:

31

Residency Requirements:

n/a

General Education Total Credits:

0



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Major Requirements Total Credits:

16

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
See Attached	0	See Attached

Free Elective Credits:

15

Internship or other Capstone Experience:

Students complete a GIS research paper for their capstone experience.

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus, CBHE-approved service region or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program within the geographically applicable area.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

First and Last Name: JAY JOHNSON

Email: jayj@nwmissouri.edu

Phone: 660-562-1277

MS GIS -- Accelerated Option Curriculum
12/14/18

Pre-Requisite: GEOG - 32545 - Principles of GIS - 3 credits

Required Courses -- 16 hrs

1. GEOG - 32543 - Applications of Remotely Sensed Data - 3 credits
2. GEOG - 32580 - Spatial Analysis and Geostatistics - 3 credits
3. GEOG - 32582 - Cartographic Design and Visualization - 3 credits
4. GEOG - 32601 - GIScience Research Seminar - 3 credits
5. GEOG - 32650 - GIS Database Design - 3 credits
6. GEOG - 32698 - GIS Research Paper - 1 credits

Free Electives -- 15 hrs (choose from below)

1. GEOG - 32611 - Special Topics in Geographic Information Science - 1 to 3 credits
2. GEOG - 32620 - GIS Theory and Research - 3 credits
3. GEOG - 32630 - Raster-based GIS and Modeling - 3 credits
4. GEOG - 32641 - Geoprocessing with Python - 3 credits
5. GEOG - 32642 - Internet GIS - 3 credits
6. GEOG - 32655 - GIS Project Management - 3 credits
7. GEOG - 32660 - Trends in GIS - 3 credits
8. GEOG - 32663 - Digital Image Processing - 3 credits
9. Advisor approved electives - 6 credits