South Dakota Board of Regents

EXISTING PROGRAM: SUBSTANTIVE PROGRAM MODIFICATION
This form is used to request substantive changes in already existing programs (majors, minors, specializations).

1. INSTITUTION: South Dakota State University

2. CURRENT PROGRAM NAME: Geographic Information Sciences (GIS) Major

3. THIS PROPOSAL DEALS WITH A CHANGE IN: CIP Code

4. LEVEL: Bachelor’s Degree

5. CATEGORY: Major

6. EFFECTIVE DATE OF CHANGE: Spring 2013

8. PRIMARY ASPECTS OF THE MODIFICATION:

Change CIP From 45.0799) Geography, Other, to 45.0702) Geographic Information Science and Cartography.

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<th>Pre</th>
<th>Num</th>
<th>Title</th>
<th>Cr Hrs</th>
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<td>System General Education Requirements*: 30</td>
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<td>Goal #1 Written Communication: ENGL 101, and ENGL 201  Credits: 6</td>
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<td>Goal #2 Oral Communication: SPCM 101*  Credits: 3</td>
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<td>Goal #3 Social Sciences/Diversity  Credits: 6</td>
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<td>Goal #4 Arts and Humanities/Diversity  Credits: 6</td>
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<td>Goal #5 Mathematics  Credits: 3</td>
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<td>Goal #6 Natural Sciences  Credits: 6</td>
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<td>Institutional Graduation Requirements**: 5</td>
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<td>Goal #1 First Year Seminar  Credits: 2</td>
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<td>Goal #2 Cultural Awareness and Social and Environmental Responsibility</td>
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<td>Credits: 3</td>
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<td>College Requirements: 11</td>
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<td>Humanities  Credits: 3</td>
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<td>Natural Sciences Credits: 8</td>
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<td>Physical Sciences</td>
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Curriculum Remains the Same
Major Requirements: 41
MATH 120 - Trigonometry * (COM) Credits: 3
STAT 281 - Introduction to Statistics (COM) Credits: 3
GEOG 131-131L - Physical Geography: Weather and Climate and Lab*
Credits: 4
GEOG 132-132L - Physical Geography: Natural Landscapes and Lab*
Credits: 4
GEOG 200 - Introduction to Human Geography * ** (G) Credits: 3
GEOG 210 - World Regional Geography * ** (COM) (G) Credits: 3
GEOG 383-383L - Cartography and Lab Credits: 3
GEOG 447 - Geography of the Future Credits: 3
GEOG 483-483L - Air Photo Interpretation and Lab Credits: 3
GEOG 484-484L - Remote Sensing and Lab Credits: 3
GEOG 472 - Introduction to GIS Credits: 3
GEOG 473-573 - GIS: Data Creation and Integration Credits: 3
GEOG 474-574 - GIS: Vector and Raster Modeling Credits: 3
or GEOG 475/575 - GIS Applications Credits: 3

Electives: 41
Suggested Elective: GEOG 382 - Geographic Research Methods (AW)
Credits: 3

For those seeking careers in GISc programming, these additional courses are suggested:
GEOG 384-384L - Advanced Cartography and Lab Credits: 3
GEOG 485-485L - Quantitative Remote Sensing and Lab Credits: 3
CSC 105 - Introduction to Computers (COM) Credits: 3
CSC 150-150L - Computer Science I (COM) Credits: 3
CSC 205 - Advanced Computer Applications (COM) Credits: 3
CSC 474/574 - Computer Networks Credits: 3
MATH 115 - Precalculus * (COM) Credits: 5
MATH 215 - Matrix Algebra Credits: 2
GE 120-120L - Engineering Drawing/CAD and Lab Credits: 3
GE 121 - Engineering Design Graphics I Credits: 1
CEE 106-106L - Elementary Surveying and Lab Credits: 4
CEE 304 - Land Surveying Credits: 3
CEE 333 - Hydrology Credits: 3

Total number of hours required for degree 120

9. EXPLANATION OF THE CHANGE:

This request is to modify the CIP codes for accuracy

Laurie Stenberg Nichols 10/9/2012
Institutional Authorization (President or Designee) Date Submitted