## Program Contents

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### Program Modification:

1.2 Geography, B.A. major (to Global Studies, B.A. major)

1.8 Wilderness Management and Outdoor Recreation Planning, B.A.S. major (to Sustainability and Resource Management, B.A.S. major)

1.12 Geography, B.S. major – Physical Geography emphasis (to Geography, B.S. major – Earth Science emphasis)

1.17 Geography, B.S. major – Geographic Information Systems emphasis (to Geography, B.S. major - GIScience emphasis)

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1.22 Geography, B.S. major – Planning emphasis (drop to emphasis only)

1.23 Signatures
BSU Curriculum Forms

Form 1

Curriculum Modification Summary

College: Arts and Science (New college: Individual and Community Health)
Department: Geography (New department: Center for Sustainable Studies)
Proposer: Jeff Ueland
Proposer’s position: Associate Professor and Chair

Describe the modification(s) you propose, and how it (they) will work to students’ advantage. (This description and explanation will be included in Curriculum Report packets forwarded to the Faculty Senate):

We are making changes to several of our programs as part of a merger with Environmental Studies, Geology, and Economics. This proposal included the creation of no new classes or program and substantially updates the existing programs. Specifically, the proposed modifications do the following:

- Reduce the number of credits in each program.
- Simplify the program structure
- Eliminate and merge alike programs
- Increase interdisciplinary curriculum offerings in each program.

These changes will improve the student experience by creating more choice and improve their ability to connect these offerings with their other interests.

Modifications proposed (specify number of each):

- Course Modification(s) (form 2) ______
- New Course(s) (form 3) ______
- Course Drop(s) (form 4) ______
- Program Modification(s) (form 5) ___ 4
- New Program(s) (form 6) ______
- Program Drop(s) (form 7) ____ 1

The modifications affect (check):

- Liberal Education ___
- Undergraduate Curriculum ___
- Graduate Curriculum ___
- Teacher Licensure Program(s) ___
BSU Curriculum Forms

Form 5

Program Modification Form

Program to be modified: Geography, B.A. major

List all proposed change(s):

1) Program Name Change to Global Studies
2) Remove GEOG 4210 (The History and Development of Geographic Thought) from the Core
3) Add GEOG 1400 (World Regional Geography) to the Core
4) Add GEOG 3870 (Regional Geography - World Cities) to Section II Regional Geography Electives

Reason(s) for the change(s):

A program name change from BA in Geography to Global Studies better represents the character of the program. It further encourages students to consider electives in other programs to augment their studies or to consider minors in other program. The international character of the BA curriculum is best framed as an international focus.

Note: In order to avoid hidden prerequisites, if a course is being dropped from this program (but not from the entire curriculum), please check for which remaining courses may include this dropped course as a prerequisite. Course prerequisites may be found in the online catalog (http://www.bemidji.edu/academics/catalog/). Remedies for hidden prerequisites may be found under Curriculum Forms at (http://www.bemidji.edu/faculty_staff/faculty_association/forms/).

Note: If a course from another department/program was either added to or dropped from this program, please notify the chair/coordinator of that course's department/program and indicate the following: N/A
The course’s home department/program was notified of the addition or dropping of their course(s) on _________ (date) by __________________ (mail, email, or phone).

Please check one of the items below:

______ No comments were received from other programs or departments within one week of the notification.
Comments were received within one week of the notification, and are attached.

**Note:** If this is a joint program, the signatures of both department chairs (and both deans, if different colleges) must be provided.

**Alert:** Attach a copy of the current program showing the marked changes. Please copy the current program from the online catalog ([http://www.bemidjistate.edu/academics/catalog/](http://www.bemidjistate.edu/academics/catalog/)) and paste it into Word. Then use either the Track Changes feature under Tools, or the underline and strikethrough Font feature under Format. (Please note that the Track Changes feature may be easily switched on and off by holding down the Ctrl+Shift+E keys.)
**Geography, B.A. major - Global Studies, B.A. major**

Required Credits: 57  
Required GPA: 2.25

**I REQUIRED CORE**

COMPLETE THE FOLLOWING COURSES:

- GEOG 1400 World Regional Geography (3 credits)
- GEOG 2100 Introduction to Physical Geography (3 credits)
- GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 3400 Economic Geography (3 credits)
- GEOG 3531 Political Geography (3 credits)
- GEOG 3532 Political Ecology (3 credits)
- GEOG 4120 Urban Geography (3 credits)
- GEOG 4210 The History and Development of Geographic Thought (3 credits)

**II REGIONAL GEOGRAPHY ELECTIVES**

SELECT 4 OF THE FOLLOWING COURSES:

- GEOG 3410 Geography of North America (3 credits)
- GEOG 3800 Regional Geography (1-3 credits)
- GEOG 3810 Geography of Europe (3 credits)
- GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
- GEOG 3840 Geography of Africa (3 credits)
- GEOG 3850 Geography of the Middle East (3 credits)
- GEOG 3860 Geography of Latin America and the Caribbean (3 credits)
- GEOG 3870 Regional Geography - World Cities (3 credits)

**III SPATIAL METHODS ELECTIVES**

SELECT 2 OF THE FOLLOWING COURSES:

- GEOG 3226 Cartography (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- GEOG 3255 Introduction to Remote Sensing (3 credits)
- GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
- GEOG 4265 Spatial Analysis (3 credits)
- GEOG 4275 Advanced Geographic Information Systems (3 credits)

IV PHYSICAL GEOGRAPHY ELECTIVES

SELECT 2 OF THE FOLLOWING COURSES:

- GEOG 3125 Weather and Climate (3 credits)
- GEOG 3630 Conservation Biology (3 credits)
  or BIOL 3630 Conservation Biology (3 credits)
- GEOG 4130 Biogeography (3 credits)
- GEOG 4140 Landscape Ecology (3 credits)

V GEOGRAPHY ELECTIVES

SELECT 6 SEMESTER CREDITS IN GEOGRAPHY COURSES AT THE 3000-4000 LEVEL

VI THESIS REQUIREMENT

COMPLETE THE FOLLOWING COURSE:

- GEOG 4990 Thesis (3 credits)

SUGGESTED SEMESTER SCHEDULE FOR GEOGRAPHY GLOBAL STUDIES MAJOR, B.A.

The following is a list of major courses arranged by year. This suggested schedule is intended to help students plan their courses in an orderly fashion. Some courses or course sequences may appear more than once. Global Studies majors and Geography minors are strongly encouraged to meet with advisors in the program prior to selecting courses as all courses are not offered each year.

Freshman

- GEOG 1400 World Regional Geography (3 credits) (recommended)
- GEOG 2100 Introduction to Physical Geography (3 credits)
- GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 3400 Economic Geography (3 credits)
- Liberal Education requirements

Sophomore
• GEOG 3232 Intermediate Geographic Information Systems (3 credits)
• Regional Courses (select 4)
  o GEOG 3410 Geography of North America (3 credits)
  o GEOG 3800 Regional Geography (1-3 credits)
  o GEOG 3810 Geography of Europe (3 credits)
  o GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
  o GEOG 3840 Geography of Africa (3 credits)
  o GEOG 3850 Geography of the Middle East (3 credits)
  o GEOG 3860 Geography of Latin America and the Caribbean (3 credits)
  o GEOG 3870 Regional Geography - World Cities (3 credits)
• ENGL 3150 Writing In The Disciplines (3 credits) (recommended)
• Complete Liberal Education requirements

Junior

• GEOG 3531 Political Geography (3 credits)
• GEOG 3532 Political Ecology (3 credits)
• GEOG 3XXX Any Remaining Regional Geography Courses
• Spatial Methods electives (select 2)
  o GEOG 3226 Cartography (3 credits)
  o GEOG 3255 Introduction to Remote Sensing (3 credits)
  o GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
  o GEOG 4265 Spatial Analysis (3 credits)
  o GEOG 4275 Advanced Geographic Information Systems (3 credits)
• Physical Geography electives (select 2)
  o GEOG 3125 Weather and Climate (3 credits)
  o GEOG 3630 Conservation Biology (3 credits)
    or BIOL 3630 Conservation Biology (3 credits)
  o GEOG 4130 Biogeography (3 credits)
  o GEOG 4140 Landscape Ecology (3 credits)
• GEOG 3XXX/4XXX Geography elective (3 credits)
• GEOG 4265 Spatial Analysis (3 credits)

Senior

• GEOG 3XXX Any Remaining Regional Geography Courses
• GEOG 3XXX/4XXX Any remaining Spatial Methods electives
• GEOG 3XXX/4XXX Any remaining Physical Geography electives
• GEOG 3XXX/4XXX Geography elective (3 credits)
• GEOG 4120 Urban Geography (3 credits)
• GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
• GEOG 4210 The History and Development of Geographic Thought (3 credits)
• GEOG 4275 Advanced Geographic Information Systems (3 credits)
• GEOG 4990 Thesis (3 credits)
BSU Curriculum Forms

Form 5

Program Modification Form

Program to be modified: Wilderness Management and Outdoor Recreation Planning, B.A.S. major

List all proposed change(s):

- Change Program name Sustainability and Resource Management
- Remove requirement that only students transferring from VCC are eligible
- Remove GEOG 2200, GEOG 2400, GEOG 4190, and GEOG 4265 from the core
- Add GEOG 3232, ENVR 2000, ENVR 3600, and ENVR 3880 to core
- Reduced all capstone credit requirements from 4 to 3
- Keep the regional geography requirement
- Make all other courses electives (choose from 17 courses in Geog, Geol, and Econ, and Envr)

Reason(s) for the change(s):

This creates a more flexible degree for students transferring from technical colleges. Also, it opens it up to more students by lifting the VCC transfer requirement.

Note: In order to avoid hidden prerequisites, if a course is being dropped from this program (but not from the entire curriculum), please check for which remaining courses may include this dropped course as a prerequisite. Course prerequisites may be found in the online catalog (http://www.bemidjistate.edu/academics/catalog/). Remedies for hidden prerequisites may be found under Curriculum Forms at (http://www.bemidjistate.edu/faculty_staff/faculty_association/forms/).

Note: If a course from another department/program was either added to or dropped from this program, please notify the chair/coordinator of that course's department/program and indicate the following: N/A
The course’s home department/program was notified of the addition or dropping of their course(s) on ________ (date) by __________________ (mail, email, or phone).

BAUD, ANTH, AND BIOL departments were all notified by email on 9 January 2018

Please check one of the items below:

______ No comments were received from other programs or departments within one week of the notification.
Comments were received within one week of the notification, and are attached.

Note: If this is a joint program, the signatures of both department chairs (and both deans, if different colleges) must be provided.

Alert: Attach a copy of the current program showing the marked changes. Please copy the current program from the online catalog (http://www.bemidjistate.edu/academics/catalog/) and paste it into Word. Then use either the Track Changes feature under Tools, or the underline and strikethrough Font feature under Format. (Please note that the Track Changes feature may be easily switched on and off by holding down the Ctrl+Shift+E keys.)

Wilderness Management and Outdoor Recreation Planning,

Sustainability and Resource Management

B.A.S. major

For students transferring to Bemidji State University with a Wilderness Management A.S. from Vermilion Community College.

Required Credits: 54
Required GPA: 2.25

I REQUIRED CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BUAD 2231 Business Statistics I (3 credits)
  or PSY 3401 Basic Statistics for Research (4 credits)
  or STAT 2610 Applied Statistics (4 credits)
- ENGL 2150 Technical Writing (3 credits)
  or ENGL 3150 Writing In The Disciplines (3 credits)
- GEOG 2100 Introduction to Physical Geography (3 credits)
- GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 2400 Introduction to Planning (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
- GEOG 4265 Spatial Analysis (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- ENVR 2000 Introduction to Environmental Science (3 credits)
- ENVR 3600 Environmental Justice and Sustainability (3 credits)
- ENVR 3880 Environmental Controversies (2 credits)
II WILDERNESS MANAGEMENT AND OUTDOOR RECREATION

II Sustainability and Resource Management

REQUIRED WILDERNESS MANAGEMENT COURSES:
COMPLETE THE FOLLOWING COURSES:

- ANTH 1110 Cultural Anthropology (3 credits)
- BIOL 2610 General Ecology (3 credits)
- BUAD 3351 Management (3 credits)
- ECON 3040 Environmental Economics (3 credits)
- GEOG 3532 Political Ecology (3 credits)
- GEOG 3570 Public Lands Planning (3 credits)
- GEOG 4130 Biogeography (3 credits)

SELECT 27 CREDITS FROM THE FOLLOWING COURSES. OTHER RELATED COURSES MAY BE SELECTED WITH PRIOR APPROVAL OF DEPARTMENT:

- ENVR 3040 Environmental Economics (3 credits)
  - or ECON 3040 Environmental Economics (3 credits)
- GEOG 3125 Weather and Climate (3 credits)
- GEOG 3226 Cartography (3 credits)
- GEOG 3532 Political Ecology (3 credits)
- GEOG 3255 Introduction to Remote Sensing (3 credits)
- GEOG 3550 Site and Resource Analysis in Planning (3 credits)
- GEOG 3570 Public Lands Planning (3 credits)
- GEOG 3630 Conservation Biology (3 credits)
  - or BIOL 3630 Conservation Biology (3 credits)
- GEOG 4130 Biogeography (3 credits)
- GEOG 4140 Landscape Ecology (3 credits)
- GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
- GEOG 4265 Spatial Analysis (3 credits)
- GEOG 4275 Advanced Geographic Information Systems (3 credits)
- GEOL 3120 Soils (4 credits)
- GEOL 3211 Environmental Hydrology (3 credits)
- GEOL 3212 Hydrogeology (3 credits)
- GEOL 3700 Environmental Geophysics (3 credits)

REGIONAL GEOGRAPHY ELECTIVES
SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3410 Geography of North America (3 credits)
- GEOG 3800 Regional Geography (1-3 credits)
- GEOG 3810 Geography of Europe (3 credits)
- GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
- GEOG 3840 Geography of Africa (3 credits)
• GEOG 3850 Geography of the Middle East (3 credits)
• GEOG 3860 Geography of Latin America and the Caribbean (3 credits)

Spatial Methods Elective:
Select 1 of the following courses:

• GEOG 3232 Intermediate Geographic Information Systems (3 credits)
• GEOG 3226 Cartography (3 credits)
• GEOG 3255 Introduction to Remote Sensing (3 credits)
• GEOG 4275 Advanced Geographic Information Systems (3 credits)

Physical Geography Elective:
Select 1 of the following courses:

• GEOG 3125 Weather and Climate (3 credits)
• GEOG 3630 Conservation Biology (3 credits)
or BIOL 3630 Conservation Biology (3 credits)
• GEOG 4140 Landscape Ecology (3 credits)

III Capstone Project

Select 1 of the following courses:

• GEOG 4910 Directed Independent Study (4 credits) (3 credits)
• GEOG 4970 Internship (4 credits) (3 credits)
• GEOG 4990 Thesis (3 credits)
BSU Curriculum Forms

Form 5

Program Modification Form

Program to be modified: Geography, B.S. major – Physical Geography Emphasis

List all proposed change(s):

- Change program Name to: Geography, B.S. major – Earth Science Emphasis
- Simplify the structure of the program to have three sections: core, electives, an spatial analysis
- Remove GEOG 2100, GEOG 2400, and GEOG 4190 from the Core
- Add GEOG 3232, GEOG 4130, GEOG 4140 to the core
- Add GEOL 1110, GEOL 2100, GEOL 2110, and GEOL 3211 to the core
- Add an option to take any regional geography course (GEOG 38xx or GEOG 3745 to the core)
- Add GEOG 49xx to the core
- Develop a flexible elective structure with many options from many departments

Reason(s) for the change(s):

- This change is part of a departmental merger that will take earth science aspects of several courses across several departments in the university and to create a more comprehensive, flexible, and interdisciplinary earth science degree.

Note: In order to avoid hidden prerequisites, if a course is being dropped from this program (but not from the entire curriculum), please check for which remaining courses may include this dropped course as a prerequisite. Course prerequisites may be found in the online catalog (http://www.bemidjistate.edu/academics/catalog/). Remedies for hidden prerequisites may be found under Curriculum Forms at (http://www.bemidjistate.edu/faculty_staff/faculty_association/forms/).

Note: If a course from another department/program was either added to or dropped from this program, please notify the chair/coordinator of that course's department/program and indicate the following:

The course’s home department/program was notified of the addition or dropping of their course(s) on ________ (date) by __________________ (mail, email, or phone).

Chairs of the BIOL, ENVR, and GEOL were contacted via email on 1/3/2018

Please check one of the items below:
No comments were received from other programs or departments within one week of the notification.

Comments were received within one week of the notification, and are attached.

Note: If this is a joint program, the signatures of both department chairs (and both deans, if different colleges) must be provided.

Alert: Attach a copy of the current program showing the marked changes. Please copy the current program from the online catalog (http://www.bemidjistate.edu/academics/catalog/) and paste it into Word. Then use either the Track Changes feature under Tools, or the underline and strikethrough Font feature under Format. (Please note that the Track Changes feature may be easily switched on and off by holding down the Ctrl+Shift+E keys.)

Geography, B.S. major – Physical Geography - Earth Science emphasis

Required Credits: 55 48
Required GPA: 2.25

I REQUIRED CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- BUAD 2231 Business Statistics I (3 credits)
  or PSY 3401 Basic Statistics for Research (4 credits)
  or STAT 2610 Applied Statistics (4 credits)
- ENGL 2150 Technical Writing (3 credits)
  or ENGL 3150 Writing In The Disciplines (3 credits)
- GEOG 2100 Introduction to Physical Geography (3 credits)
- GEOG 2200 Introduction to Human Geography (3 credits)
- GEOG 2400 Introduction to Planning (3 credits)
- GEOG 3231 Introduction to Geographic Information Systems (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- GEOG 3410 Geography of North America (3 credits)
  or GEOG 3800 Regional Geography (1-3 credits)
  or GEOG 3810 Geography of Europe (3 credits)
  or GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
  or GEOG 3840 Geography of Africa (3 credits)
  or GEOG 3850 Geography of the Middle East (3 credits)
  or GEOG 3860 Geography of Latin America and the Caribbean (3 credits)
• GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
• GEOG 4130 Biogeography (3 credits)
• GEOG 4140 Landscape Ecology (3 credits)
• GEOG 4265 Spatial Analysis (3 credits)
• GEOG 4910 Independent Study (3 credits)
  or GEOG 4970 Internship (3 credits)
  or GEOG 4990 Thesis (3 credits)
• GEOL 1110 Physical Geology (4 credits)
• GEOL 2110 Mineralogy and Petrology (4 credits)

II PHYSICAL GEOGRAPHY EMPHASIS Earth Science Electives

Select 3 courses from the following, or related UPPER DIVISION courses as approved IN ADVANCE by advisor:

• BIOL 3120 Soils (4 credits)
  or GEOL 3120 Soils (4 credits)
• BIOL 3661 Limnology (4 credits)
• BIOL 3730 Plant Diversity (4 credits)
• BIOL 3840 Wetlands Ecology (3 credits)
• BIOL 4623 Forest Ecology (4 credits)
• ENVR 3040 Environmental Economics (3 credits)
• ENVR 3600 Environmental Justice and Sustainability (3 credits)
• GEOG 3125 Weather and Climate (3 credits)
• GEOG 3630 Conservation Biology (3 credits)
  or BIOL 3630 Conservation Biology (3 credits)
• GEOL 1120 Historical Geology (4 credits)
• GEOL 3211 Environmental Hydrology (3 credits)
• GEOL 3212 Hydrogeology (3 credits)
• GEOL 3400 Glacial and Pleistocene Geology (3 credits)
• GEOL 3500 Topics in Paleontology (3 credits)
• GEOL 3600 Stratigraphy and Sedimentation (3 credits)
• GEOL 3700 Environmental Geophysics (3 credits)
• GEOL 4300 Global Environmental Change (3 credits)

REQUIRED PHYSICAL GEOGRAPHY COURSES

COMPLETE THE FOLLOWING COURSES:

• GEOG 3125 Weather and Climate (3 credits)
• GEOG 4130 Biogeography (3 credits)
• GEOG 4140 Landscape Ecology (3 credits)
• GEOL 1110 Physical Geology (4 credits)
NATURAL/EARTH SCIENCE ELECTIVES

SELECT 2 OF THE FOLLOWING COURSES:

- BIOL 2610 General Ecology (3 credits)
- BIOL 3120 Soils (4 credits)
  or GEOL 3120 Soils (4 credits)
- GEOG 3630 Conservation Biology (3 credits)
  or BIOL 3630 Conservation Biology (3 credits)
- GEOL 2110 Mineralogy and Petrology (4 credits)
- GEOL 3211 Environmental Hydrology (3 credits)
- GEOL 3400 Glacial and Pleistocene Geology (3 credits)
- GEOL 3500 Topics in Paleontology (3 credits)
- GEOL 3600 Stratigraphy and Sedimentation (3 credits)

III. SPATIAL METHODS ELECTIVES

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3226 Cartography (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- GEOG 3255 Introduction to Remote Sensing (3 credits)
- GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
- GEOG 4275 Advanced Geographic Information Systems (3 credits)
- STAT 3610 Time Series Analysis (3 credits)

REGIONAL GEOGRAPHY ELECTIVES

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3410 Geography of North America (3 credits)
- GEOG 3800 Regional Geography (1-3 credits)
- GEOG 3810 Geography of Europe (3 credits)
- GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
- GEOG 3840 Geography of Africa (3 credits)
- GEOG 3850 Geography of the Middle East (3 credits)
- GEOG 3860 Geography of Latin America and the Caribbean (3 credits)

HUMAN GEOGRAPHY ELECTIVE

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3400 Economic Geography (3 credits)
- GEOG 3531 Political Geography (3 credits)
- GEOG 4120 Urban Geography (3 credits)
- GEOG 4210 The History and Development of Geographic Thought (3 credits)
III - CAPSTONE PROJECT

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 4910 Directed Independent Study (4 credits)
- GEOG 4970 Internship (4 credits)
- GEOG 4990 Thesis (3 credits)
BSU Curriculum Forms

Form 5

Program Modification Form

Program to be modified: Geography, B.S. major – Geographic Information Systems emphasis

List all proposed change(s):
- Change program name to Geography, B.S. major – GIScience Emphasis
- Simplify the program by making core and elective sections
- Require only one of GEOG 2100 or GEOG 2200
- Add CS 1309, CS 2321 and CS 2270 to the core
- Make elective section more expansive and interdisciplinary
- Add GEOG 4970 to the core for 3 credits instead of 4
- Add GEOG 3232, GEOG 3255, and GEOG 4275 to the core
- Remove GEOG 2400, and GEOG 4190 from the core.
- Reduce minimum number of required credits to 49

Reason(s) for the change(s):

To align the GIS major with more of a Computer and Data Science focus.

Note: In order to avoid hidden prerequisites, if a course is being dropped from this program (but not from the entire curriculum), please check for which remaining courses may include this dropped course as a prerequisite. Course prerequisites may be found in the online catalog (http://www.bemidjistate.edu/academics/catalog/). Remedies for hidden prerequisites may be found under Curriculum Forms at (http://www.bemidjistate.edu/faculty_staff/faculty_association/forms/).

Note: If a course from another department/program was either added to or dropped from this program, please notify the chair/coordinator of that course's department/program and indicate the following: The course’s home department/program was notified of the addition or dropping of their course(s) on _________ (date) by __________________ (mail, email, or phone).

Chairs from STAT, CS, ENVR, ECON, and GEOL were contacted via email on 1/3/2018.

Please check one of the items below:
No comments were received from other programs or departments within one week of the notification.

Comments were received within one week of the notification, and are attached.

Note: If this is a joint program, the signatures of both department chairs (and both deans, if different colleges) must be provided.

Alert: Attach a copy of the current program showing the marked changes.

Please copy the current program from the online catalog (http://www.bemidjistate.edu/academics/catalog/) and paste it into Word. Then use either the Track Changes feature under Tools, or the underline and strikethrough Font feature under Format. (Please note that the Track Changes feature may be easily switched on and off by holding down the Ctrl+Shift+E keys.)

Geography, B.S. major – Geographic Information System-GIScience Emphasis

Required Credits: **54 49**

Required GPA: 2.25

I REQUIRED CORE COURSES

COMPLETE THE FOLLOWING COURSES:

- **BUAD 2231 Business Statistics I** (3 credits)
  - or **PSY 3401 Basic Statistics for Research** (4 credits)
  - or **STAT 2610 Applied Statistics** (4 credits)
- **ENGL 2150 Technical Writing** (3 credits)
  - or **ENGL 3150 Writing In The Disciplines** (3 credits)
- **CS 1309 Problem Solving and Computation** (3 credits)
- **CS 2270 Introduction to Web Programming** (3 credits)
- **CS 2321 Computer Science I** (4 credits)
- **GEOG 2100 Introduction to Physical Geography** (3 credits)
  - or **GEOG 2200 Introduction to Human Geography** (3 credits)
- **GEOG 2200 Introduction to Human Geography** (3 credits)
- **GEOG 2400 Introduction to Planning** (3 credits)
- **GEOG 3226 Cartography** (3 credits)
- **GEOG 3231 Introduction to Geographic Information Systems** (3 credits)
- **GEOG 3232 Intermediate Geographic Information Systems** (3 credits)
- **GEOG 3255 Introduction to Remote Sensing** (3 credits)
• GEOG 3410 Geography of North America (3 credits)
  or GEOG 3800 Regional Geography (3 credits)
  or GEOG 3810 Geography of Europe (3 credits)
  or GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
  or GEOG 3840 Geography of Africa (3 credits)
  or GEOG 3850 Geography of the Middle East (3 credits)
  or GEOG 3860 Geography of Latin America and the Caribbean (3 credits)
  or GEOG 3870 Global Cities (3 credits)
• GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
• GEOG 4265 Spatial Analysis (3 credits)
• GEOG 4275 Advanced Geographic Information Systems (3 credits)
• GEOG 4970 Internship (3 credits)

II GEOGRAPHIC INFORMATION SYSTEM EMPHASIS GIScience

Electives
Select 2 of the following courses:

• GEOG 2400 Introduction to Planning (3 credits)
• GEOG 3125 Weather and Climate (3 credits)
• GEOG 3400 Economic Geography (3 credits)
• GEOG 3560 Metropolitan Land Use Planning (3 credits)
• GEOG 3580 Regional Development Planning (3 credits)
• GEOG 3630 Conservation Biology (3 credits)
  or BIOL 3630 Conservation Biology (3 credits)
• GEOG 4120 Urban Geography (3 credits)
• GEOG 4130 Biogeography (3 credits)
• GEOG 4140 Landscape Ecology (3 credits)
• GEOG 4190 Qualitative Methods in Geographic Research (3 credits)
• BUAD 4385 Data Modeling and Design (3 credits)
• CS 2322 Computer Science II (4 credits)
• CS 3270 Advanced Web Programming (3 credits)
• CS 3507 Introduction to Databases (3 credits)
• ECON 2000 Markets and Resource Allocation (3 credits)
• ECON 3040 Environmental Economics (3 credits)
  or ENVR 3040 Environmental Economics (3 credits)
• ENVR 2000 Introduction to Environmental Science (3 credits)
• GEOL 3120 Soils (4 credits)
  or BIOL 3120 Soils (4 credits)
• GEOL 4300 Global Environmental Change (3 credits)
• STAT 3610 Time Series (3 credits)
• TADT 1460 2D Graphics And Laser Etching (3 credits)
REQUIRED GIS COURSES

COMPLETE THE FOLLOWING COURSES:

- GEOG 3226 Cartography (3 credits)
- GEOG 3232 Intermediate Geographic Information Systems (3 credits)
- GEOG 3255 Introduction to Remote Sensing (3 credits)
- GEOG 4275 Advanced Geographic Information Systems (3 credits)

PHYSICAL GEOGRAPHY ELECTIVE

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3125 Weather and Climate (3 credits)
- GEOG 3630 Conservation Biology (3 credits)
  or BIOL 3630 Conservation Biology (3 credits)
- GEOG 4130 Biogeography (3 credits)
- GEOG 4140 Landscape Ecology (3 credits)

HUMAN GEOGRAPHY ELECTIVE

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3400 Economic Geography (3 credits)
- GEOG 3531 Political Geography (3 credits)
- GEOG 4120 Urban Geography (3 credits)
- GEOG 4210 The History and Development of Geographic Thought (3 credits)

REGIONAL GEOGRAPHY ELECTIVES

SELECT 1 OF THE FOLLOWING COURSES:

- GEOG 3410 Geography of North America (3 credits)
- GEOG 3800 Regional Geography (1-3 credits)
- GEOG 3810 Geography of Europe (3 credits)
- GEOG 3820 Geography of East, South, and Southeast Asia (3 credits)
- GEOG 3840 Geography of Africa (3 credits)
- GEOG 3850 Geography of the Middle East (3 credits)
- GEOG 3860 Geography of Latin America and the Caribbean (3 credits)

COGNATE FIELD ELECTIVES

SELECT 2 OF THE FOLLOWING COURSES:
• BUAD 4385 Data Modeling and Design (3 credits)
• CS 1309 Problem Solving and Computation (3 credits)
• CS 2270 Introduction to Web Programming (3 credits)
• CS 2321 Computer Science I (4 credits)
• CS 2322 Computer Science II (4 credits)
• CS 3270 Advanced Web Programming (3 credits)
• CS 3507 Introduction to Databases (3 credits)
• TADT 1460 2D Graphics And Laser Etching (3 credits)

III CAPSTONE PROJECT

SELECT 1 OF THE FOLLOWING COURSES:

• GEOG 4910
• GEOG 4970 Internship (4 credits)
• GEOG 4990 Thesis (3 credits)
BSU Curriculum Forms

Form 7

Program Drop Form

Program to be dropped:

Geography, B.S. major – Planning Emphasis
Reason(s) for dropping it:

This program is being consolidated with the Planning and Policy program in Environmental Studies

Note: Please notify the chair/coordinator of other departments/programs with courses in this dropped program and indicate the following:

The course’s home department/program was notified of the dropping of their course(s) on ________ (date) by ________________ (mail, email, or phone).

The chairs of BAUD, ENGL, PSY, BIOL, and STAT were all notified of this change via email on 1/3/2018.

Alert: Contact Academic Affairs (Patrick Guilfoile) regarding notification downstate.
BSU Curriculum Forms

Form 8
Updated: 09.18.15

Form 8

Signatures

_________________ jeff Ueland / Chair, Dept of Geography / 11 January 2018 ____________
Proposer / Title / Date

_________________ jeff Ueland / Chair, Dept of Geography / 11 January 2018 ____________
Chair or Director / Department or Program / Date

Note: "All departmental recommendations [on curriculum] must be reviewed and approved by the department's faculty."--IFO/MnSCU Master Agreement 2009-2011, 20.A.3 (p. 80).

_________________ Colleen Greer / Arts and Sciences / 7.20.18 ____________________________
Dean / College / Date

[Note: at this point, packet goes to Academic Affairs Office.]
FW: Changes to Geography’s BAS in wilderness management program

Andrew Hafs  
Fri 1/19/2018 9:39 AM  
To: Jeffrey Ueland <JUeland@bemidjistate.edu>; Michael Murray <MMurray@bemidjistate.edu>;  
Cc: Elizabeth Rave <ERave@bemidjistate.edu>; Brian Hiller <BHiller@bemidjistate.edu>;  
1 attachments (78 KB)  
Form_5_Program_Modification_GeogBAS-1.doc;  
Jeff and Mike,  
I just saw the proposed changes to wilderness management program and I have one concern.  

The new name “Natural Resource Management and Sustainability” suggests to me that the students would be getting a degree very similar to something like Fisheries Management, Wildlife Management, or Forestry. Here at BSU we offer two of those majors and incoming or transferring students are required to take Introduction to Biology I, Chemistry I, Introduction to Biology II, and Chemistry II.  

With the new name change I think you will inadvertently attract Fisheries and Wildlife students to your major. They will then not have the required courses and will ultimately be behind once they realize they should be in Fisheries or Wildlife Biology.  

Many incoming students may just look at the major name and not the courses required and by the time they figure it out, over a year of their time and money will be wasted.  

Obviously this is up to you all but a name like “Natural Resource Policy and Sustainability” may prevent some future headaches for both of our departments.  

My only other comment in regards to the wave of curriculum changes you are proposing is related to the ecosystem studies emphasis.  

It was interesting to me that you are proposing to have an ecosystem studies emphasis without requiring our basic ecology course?  

Again, these are just some things for you to think over while you are trying to develop the best possible curriculum for our students.  

Thank you for your time.  
Andy  
Andrew Hafs  
Associate Professor of Biology  
Aquatic Biology Program  
Sattgast 218A  
Bemidji State University  
Bemidji, MN 56601  
ahafs@bemidjistate.edu  
(218) 755-2789

From: Elizabeth Rave
Sent: Thursday, January 18, 2018 1:38 PM
To: Andrew Hafs <AHafs@bemidjistate.edu>
Subject: FW: Changes to Geography's BAS in wilderness management program

Elizabeth Rave, Ph.D.
Dept. of Biology
Bemidji State University
Bemidji, MN 56601
(218) 755-2785

From: Jeffrey Ueland
Sent: Tuesday, January 9, 2018 7:30 AM
To: Elizabeth Rave <ERave@bemidjistate.edu>
Cc: Brian Hiller <BHiller@bemidjistate.edu>
Subject: Re: Changes to Geography's BAS in wilderness management program

Liz,
I did not hit respond to all in the last email, so Brian was not included in my response. I have fixed the omission (see attached) and it should read correctly now.

thanks - jeff Ueland

Jeffrey S. Ueland, Ph.D.
Associate Professor and Chair
Department of Geography
Bemidji State University
(218) 755-2805

From: Elizabeth Rave
Sent: Tuesday, January 9, 2018 7:25:31 AM
To: Jeffrey Ueland
Cc: Brian Hiller
Subject: RE: Changes to Geography's BAS in wilderness management program

Hi Jeff,
Will you be cross listing Conservation Biology, since I teach that course each year?

Elizabeth Rave, Ph.D.
Dept. of Biology
Bemidji State University
Bemidji, MN 56601
(218) 755-2785

From: Jeffrey Ueland
Sent: Tuesday, January 9, 2018 7:19 AM
To: Elizabeth Rave <ERave@bemidjistate.edu>; Douglas Leif <DLeif@bemidjistate.edu>; Rucha Ambikar <RAmbikar@bemidjistate.edu>
Subject: Changes to Geography's BAS in wilderness management program
Rucha, Doug, and Elizabeth,

As part of our forthcoming merger we are proposing to modify our BAS in wilderness management and change its focus to natural resource management and sustainability. As part of these changes we are proposing to drop ANTH 1110, BIOL 2610, and BAUD 3351 from the requirements (see full proposal and changes in attached document). Please let me know if you have any comments or concerns with these proposed changes.

thanks - jeff Ueland

Jeffrey S. Ueland, Ph.D.
Associate Professor and Chair
Department of Geography
Bemidji State University
(218) 755-2805
Changes to Geography's BAS in wilderness management program

Rucha Ambikar
Wed 1/10, 11:11 PM

Hey,

Thanks for this email! I knew that this anthropology course was an elective but hadn't realized it was part of the requirements for your program. As it is, the anthropology curriculum is set for its own revision starting this semester, so it should not be a problem if you drop this course.

Hope that helps,
Rucha

Dr. Rucha Ambikar
Assistant Professor of Sociology
Bemidji State University
Nagy Hall 309
Phone: (218) 755-2540
Email: rambikar@bemidjistate.edu

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Douglas Let
Tue 7/9, 4:46 PM

Happy New Year Boss

The Dept of BusAd supports your proposal, and thanks the Geography Dept for asking.

Much appreciated.

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Douglas Let, Professor
Chair, Business Administration, College of Business
Bemidji State University
1500 Bertha Av NW, Northwood 730
Bemidji, MN 56601
218-755-2754 | 218-755-2507
dlet@bemidjistate.edu

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Jeffrey Uleland
Tue 1/9, 7:29 AM

Liz,

I did not hit respond to all in the last email, so Brian was not included in my response. I have fixed the omission (see attached) and it should read correctly now.

thanks - jeff uleland

Jeffrey S. Uleland, Ph.D.
Associate Professor and Chair
Department of Geography
Bemidji State University
(218) 755-2905

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Jeffrey Uleland
Tue 1/9, 7:26 AM

Liz,

We will be. It should have been there, but was likely missed. I will make the correction.

- jeff uleland

Jeffrey S. Uleland, Ph.D.
Associate Professor and Chair
Department of Geography
Bemidji State University
(218) 755-2905
Elizabeth Rave
Sat 9/7 7:30 AM
Jeffrey Ueland

So Jeff,
Will you be cross listing Conservation Biology, since I teach that course each year?

Elizabeth Rave, Ph.D.
Dept. of Biology
Bemidji State University
Bemidji, MN 56601
(218) 755-2765

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Jeffrey Ueland
Sat 9/7 7:19 AM

Ruchi, Doug, and Elizabeth,

As part of our forthcoming merger we are proposing to modify our B.A. in wilderness management and change its focus to natural resource management and sustainability. As part of these changes we are proposing to drop ANTH 1110, BIOL 2602, and BAUD 3354 from the requirements (see full proposal and changes in attached document). Please let me know if you have any comments or concerns with these proposed changes.

thanks - jeff ueland

Jeffrey S. Ueland, Ph.D.
Associate Professor and Chair
Department of Geography
Bemidji State University
(218) 755-2805
BS. Geography - Earth Science Emphasis curricular changes

Elizabeth Rave

Hi Jeff,

I forwarded this email to the affected professors, and I’ve heard back from one saying he’s good with it. Since I haven’t heard from the others, I’m assuming that they’re good to go as well.

Elizabeth Rave, Ph.D.
Dept. of Biology
Bemidji State University
Bemidji, MN 56601
(218) 755-2795

Jeffrey Ueland

Liz and Mike,

As part of Geography’s upcoming merger with Environmental Studies, Geology, and Economics, we are making substantial curricular changes. Our Physical geography program is being modified to have more of a earth science focus. As part of this a number of the courses from each of your departments have been added as either requirements or elective options. Please see the attached proposal for the complete list and let me know if you have any comments or concerns.

thanks - jeff ueland

Jeffrey S. Ueland, Ph.D.
Associate Professor and Chair
Department of Geography
Bemidji State University
(218) 755-2805
Jeff, those numbers are certainly manageable. Thank you for the prompt reply.

Derek

Dr. Derek Webb
Professor of Statistics and Mathematics
Department Chair
Bemidji State University Faculty Association President
Department of Mathematics and Computer Science
Bemidji State University
304 Hegg Sauer Hall
1300 Birchmont Dr. NE 23
Bemidji, MN 56601-2499

Office: 218-755-2866
Fax: 218-755-2922
email: dwebb@bemidjistate.edu

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Jeffrey Ueland
Thu 4/4, 2:11 PM
Derek Webb · V

Derek,

These are currently electives in the program so there are some students taking those classes now. We have about 10-12 majors in the GIS track so if we maintain that number it would add roughly 3-5 max per semester. Is that a doable number for the classes? I can also keep you up to speed on our numbers as to help you plan if that helps as well.

thanks a bunch. - jeff ueland

Jeffrey S. Ueland, Ph.D.
Associate Professor and Chair
Department of Geography

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Hello Jeff, our department has been apprised. We have no concerns. We only have a question. Do you have a rough estimate of how many more students per year we might see in CS 1309, 2321, and 2707?

Thank you.

Derek

Dr. Derek Webb
Professor of Statistics and Mathematics
Department Chair
Bemidji State University Faculty Association President
Department of Mathematics and Computer Science
Bemidji State University
304 Hegg Sauer Hall
1300 Birchmont Dr. NE 23
Bemidji, MN 56601-2499

Office: 218-755-2846
Fax: 218-755-2922
email: dwebb@bemidjistate.edu

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Jeffrey Ueland
Sat 4/6, 3:30 AM
Marty L. Wolf · <mjwolf@bsu.bemidjistate.edu>; Derek Webb; Mike Murray · mjwolf@gmail.com · V

As part of Geography’s upcoming merger with Environmental Studies, Geology, and Economics, we are making substantial curricular changes. Our GIS program is being modified and the proposal includes 3 required G5 courses into the core. It also changes the elective structure to include a number of supporting topical classes. A number of courses from each of your respective programs is included in this proposal. Please see the attached proposal for the complete list of course additions and let me know if you have any comments or concerns.

thanks - jeff ueland
notification of dropped program

Lauren Cobb
Thu 1/4, 3:46 PM

Hi Jeff,
If I’m understanding this correctly, your proposal simply moves these courses from one Geography’s planning degree to Environmental Studies’ policy and planning degree, which does not appear to create any problems for the Department of English and in fact continues to contribute to enrollment in the two English courses.

Best,
Lauren

Douglas Lief
Wed 1/3, 5:18 PM
Jeffrey Lieland

Hey Doc,

Very good...we support!

Thanks Doc,

Jeff
Douglas Lief, Professor
Chair, Business Administration, College of Business
Bemidji State University
1000 Birchmont Dr. North #30B
Bemidji, MN 56601
218-755-2754 | 218-755-2907
del@bemidjistate.edu

Laurie Desiderato
Wed 1/3, 10:23 AM

Hi Jeff,
Thanks for the update. No concerns here.

Laurie

Laurie Desiderato, Ph.D.
Professor of Psychology
202 Hagg Fauer Hall
(218) 755-2940

Address
#33 Bemidji State University
1500 Birchmont Dr. NE
Bemidji, MN 56601

Jeffrey Lieland
Wed 1/3, 6:16 AM
Lauren Cobb; Elizabeth Race; Laurie Desiderato; Derek Webb

Lauren, Laurie, Doug, Derek, and Elizabeth,

Geography is sending a curriculum packet forward this week that will drop our planning program. Each of your departments have classes in that program. This is a formality as the program, in functional terms, is being merged with Environmental studies policy and planning degree. That proposal, which will come from environmental studies, still includes all the courses we currently utilize from your respective departments (see list below). Please let me know if you have any questions, concerns, or comments.

RUAD 2231 Business Statistics (3 credits)
STAT 2610 Applied Statistics (4 credits)
PSY 3401 Basic Statistics for Research (4 credits)

ENGL 2150 Technical Writing (3 credits)
ENGL 3150 Writing In The Disciplines (3 credits)
BIOL 3630 Conservation Biology (3 credits)