Minor Change to an Undergraduate Program

Program Name: Geography & Planning

Complete only if applicable
Program named above is:
☐ Option within ________________________________
(degree program name)

☐ Advising Pattern within ________________________________
(option name)

within ________________________________
(degree program name)

☐ Minor
☐ Certificate

☐ Changes being made affect a subject matter preparation or credential program.

Brief rationale for change:
minor reorganization of major core to be more flexible for students.

Does the proposed change enhance or support the Diversity Action Plan (see definition & Task 3.1)? [ ]
If yes, please explain.

Required Signatures

The Department of Geography & Planning has reviewed and approves this program change

[Signature]
Chair, Department Curriculum Committee

2/25/15
Date

[Signature]
Department Chair

2/24/2015
Date

The College of BSS has reviewed and approves this program change

[Signature]
Chair, College Curriculum Committee

4/14/15
Date

[Signature]
College Dean

4/14/15
Date

Send signature page with proposal attached to Curriculum Services at Academic Affairs, zip 110
AA Technical Review Completed

Date
The Bachelor of Arts in Geography

Total Course Requirements for the Bachelor's Degree: 120 units

See Bachelor's Degree Requirements in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

A suggested Major Academic Plan (MAP) has been prepared to help students meet all graduation requirements within four years. You can view MAPs on the Degree MAPs page in the University Catalog or you can request a plan from your major advisor.

General Education Pathway Requirements: 48 units

See General Education in the University Catalog and the Class Schedule for the most current information on General Education Pathway Requirements and course offerings.

- GEOG 390 is an approved GE Writing Intensive substitution.

General Education Foundation Courses and Pathways Suggested for Geography Majors:

The following General Education foundation courses are recommended by the department to support the student in either of the options for the Geography major:

- Critical Thinking: GEOS 104 or PHIL 102
- Quantitative Reasoning: MATH 105, MATH 118, or MATH 120
- Life Sciences: BIOL 152, NSCI 102, or PSSC 101

The following General Education Pathways are recommended as complimentary to either of the options for the Geography major: Diversity Studies, Food Studies, Global Development Studies, International Studies, Science, Technology and Values, Sustainability Studies.

Diversity Course Requirements: 6 units

See Diversity Requirements in the University Catalog. Most courses taken to satisfy these requirements may also apply to General Education.
Literacy Requirement:

See Mathematics and Writing Requirements in the University Catalog. Writing proficiency in the major is a graduation requirement and may be demonstrated through satisfactory completion of a course in your major which has been designated as the Writing Proficiency (WP) course for the semester in which you take the course. Students who earn below a C- are required to repeat the course and earn a C- or higher to receive WP credit. See the Class Schedule for the designated WP courses for each semester. You must pass ENGL 130I or JOUR 130I (or equivalent) with a C- or higher before you may register for a WP course.

Course Requirements for the Major: 45 units

Completion of the following courses, or their approved transfer equivalents, is required of all candidates for this degree. Additional required courses, depending upon the selected option are outlined following the major core program requirements.

Major Core Program: 21 units

| 5 courses required: |  
|---------------------|---
| GEOG 101H Physical Geography | 3.0 FS - GE - WI |
| Prerequisites: High school biology, chemistry, or physics is recommended. |
| GEOG 102 Human Geography | 3.0 FS - GE - GC |
| GEOG 211 Introduction to Geographical Information Systems | 3.0 FS - |
| GEOG 219 Introduction to Geographic Methods | 3.0 FS - |
| GEOG 390 Foundations of Geographical Analysis and Writing | 3.0 FS -WP |
| Prerequisites: ENGL 130 or JOUR 130 (or equivalent) with a grade of C- or higher. |

| 4 courses required: |  
|---------------------|---
| GEOG 101 Introduction to Geographical Information Systems | 3.0 FS - GE - WI |
| Prerequisites: High school biology, chemistry, or physics is recommended. |
| GEOG 211 Introduction to Geographic Methods | 3.0 FS - |

| 3 courses required: |  
|---------------------|---
| GEOG 219 Introduction to Geographic Methods | 3.0 FS - |
**GEOG 390**  Foundations of Geographical Analysis and Writing  3.0 FS  GE WP

Prerequisite: ENGL 130 or JOUR 130 (or equivalent) with a grade of C- or higher.

1 course selected from:

- **GEOG 102**  Human Geography  3.0 FS  GE GC
- **GEOG 105**  California Cultural Landscapes  3.0 FS  GE USD
- **GEOG 106**  The American West  3.0 FS  GE USD

**SOC 301**  Spatial Concepts: Geographical Patterns and Processes  3.0 FS

2 courses selected from:

- **GEOG 311**  GIS Concepts and Techniques  3.0 SP
  Prerequisite: GEOG 211 or equivalent.
- **GEOG 313**  Introductory Cartography  3.0 FA
  Prerequisites: GEOG 211 or equivalent.
- **GEOG 315**  Applied Statistical Methods in Geography  3.0 FA
  Prerequisites: GEOG 211, MATH 105 or equivalents.
- **GEOG 317**  Field Techniques  3.0 FA
  Prerequisites: GEOG 101, GEOG 102.
- **GEOG 318**  Remote Sensing of Environment  3.0 SP
  Prerequisites: GEOG 211 and GEOG 315, or MATH 105 or equivalents.

Note: Techniques courses completed for the Geography Core cannot be double counted toward the techniques courses taken in the geography advising options.

**Major Option Course Requirements: 24 units**

The following courses, or their approved transfer equivalents, are required dependent upon the option chosen. Students must select one of the following options for completion of the major course requirements. Use the links below to jump to your chosen option.
**The Option in Human Geography and Planning: 24 units**

5 courses required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 301</td>
<td>Global Economic Geography</td>
<td>3.0 SP</td>
<td>GC</td>
</tr>
<tr>
<td>GEOG 320</td>
<td>Introduction to Community and Rural Planning</td>
<td>3.0 FA</td>
<td></td>
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<tr>
<td>GEOG 438</td>
<td>Urban Geography</td>
<td>3.0 SP</td>
<td></td>
</tr>
<tr>
<td>GEOG 439</td>
<td>American Cultural Landscapes</td>
<td>3.0 FA</td>
<td></td>
</tr>
<tr>
<td>GEOG 506S</td>
<td>Community Service Practice in Geography</td>
<td>3.0 FA</td>
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</tbody>
</table>

3 courses selected from:

<table>
<thead>
<tr>
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</tr>
</thead>
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<td>GEOG 311</td>
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<td>3.0 SP</td>
<td></td>
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<td>Introductory Cartography</td>
<td>3.0 FA</td>
<td></td>
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<td></td>
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<tr>
<td>GEOG 318</td>
<td>Remote Sensing of Environment</td>
<td>3.0 SP</td>
<td></td>
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<tr>
<td>GEOG 342</td>
<td>Geomorphology</td>
<td>3.0 FA</td>
<td></td>
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<tr>
<td>GEOG 343</td>
<td>Climatology</td>
<td>3.0 FA</td>
<td></td>
</tr>
<tr>
<td>GEOG 352</td>
<td>The United States</td>
<td>3.0 FS</td>
<td>GE USD</td>
</tr>
<tr>
<td>GEOG 357</td>
<td>Lands and Peoples of Latin America</td>
<td>3.0 FS</td>
<td>GE GC</td>
</tr>
</tbody>
</table>

This course is also offered as LAST 357.

GEOG 411 Geospatial Analysis and Modeling in GIS 3.0 SP
Prerequisites: GEOG 211, GEOG 311 (may be taken concurrently), GEOG 315.
GEOG 413  Advanced Cartography and Geovisualization  3.0  SP
Prerequisites: GEOG 211 (may be taken concurrently) and GEOG 313.
GEOG 425  Planning for Sustainable Communities and Regions  3.0  FA
GEOG 426  Water Resource Policy and Planning  3.0  SP
Prerequisites: GEOG 101 or NSCI 101 or equivalents. Recommended: GEOG 304, GEOG 343.
GEOG 427  Environmental Impact Analysis  3.0  SP
Prerequisites: GEOG 320 or equivalent.
GEOG 428  Site Planning  3.0  S2
Prerequisites: GEOG 219, GEOG 320, or equivalent.
GEOG 429  Environmental and Conservation Planning  3.0  S1
Prerequisites: GEOG 211 and GEOG 219 or equivalents; GEOG 320. Recommended: GEOG 101 or GEOS 130.
GEOG 435  Historical Geography of North America  3.0  SP
Prerequisites: Faculty permission.
GEOG 440  Environmental Thought and Action  3.0  SP
Prerequisites: Faculty permission.
GEOG 444  Biogeography and Landscape Ecology  3.0  S2
Prerequisites: GEOG 101, GEOG 211, GEOG 343, GEOG 390 or equivalents. Recommended: BIOL 152, BIOL 350, GEOG 315.
GEOG 445  Pyrogeography  3.0  S1
Prerequisites: GEOG 101; AGRI 331, BIOL 350, BIOL 414, GEOG 343, GEOG 405S, GEOG 444, or PSSC 330.

Note: Any 3 unit upper-division course from outside the department may be selected with advisor approval.

The Option in Physical and Environmental Geography: 24 units
3 courses required:

**GEOG 342**  Geomorphology  3.0  FA  
Prerequisites: GEOG 101, GEOS 102, PSSC 101, or PSSC 250; GEOG 211, GEOG 219, or AGET 340.

**GEOG 343**  Climatology  3.0  FA  
Prerequisites: GEOG 101 or GEOS 120 or equivalent; GEOG 211 and GEOG 219 or equivalent.

**GEOG 407**  Earth Systems Analysis of Global Change  3.0  SP  
Prerequisites: GEOG 342, GEOG 343, and GEOG 390 or equivalent; GEOG 444 or GEOG 445.

1 course selected from:

**GEOG 444**  Biogeography and Landscape Ecology  3.0  S2  
Prerequisites: GEOG 101, GEOG 211, GEOG 343, GEOG 390 or equivalents. Recommended: BIOL 152, BIOL 350, GEOG 315.

**GEOG 445**  Pyrogeography  3.0  S1  
Prerequisites: GEOG 101; AGRI 331, BIOL 350, BIOL 414, GEOG 343, GEOG 405S, GEOG 444, or PSSC 330.

1 course selected from:

**GEOG 405S**  Nature and Restoration  3.0  FA  
Prerequisites: GEOG 101, GEOG 102, and GEOG 390 or equivalents. Recommended: GEOG 343, GEOG 444, GEOG 445, or PSSC 330.

**GEOG 426**  Water Resource Policy and Planning  3.0  SP  
Prerequisites: GEOG 101 or NSCI 101 or equivalents. Recommended: GEOG 304, GEOG 343.

2 courses selected from:

**GEOG 311**  GIS Concepts and Techniques  3.0  SP  
Prerequisite: GEOG 211 or equivalent.

**GEOG 313**  Introductory Cartography  3.0  FA  
Prerequisites: GEOG 211 or equivalent.

**GEOG 315**  Applied Statistical Methods in Geography  3.0  FA  
Prerequisites: GEOG 211, MATH 105 or equivalents.
GEOG 317  Field Techniques  3.0 FA
Prerequisites: GEOG 101, GEOG 102.

GEOG 318  Remote Sensing of Environment  3.0 SP
Prerequisites: GEOG 211 and GEOG 315, or MATH 105 or equivalents.

GEOG 411  Geospatial Analysis and Modeling in GIS  3.0 SP
Prerequisites: GEOG 211, GEOG 311 (may be taken concurrently), GEOG 315.

GEOG 413  Advanced Cartography and Geovisualization  3.0 SP
Prerequisites: GEOG 211 (may be taken concurrently) and GEOG 313.

GEOG 425  Planning for Sustainable Communities and Regions  3.0 FA

GEOG 427  Environmental Impact Analysis  3.0 SP
Prerequisites: GEOG 320 or equivalent.

GEOG 428  Site Planning  3.0 S2
Prerequisites: GEOG 219, GEOG 320, or equivalent.

GEOG 429  Environmental and Conservation Planning  3.0 S1
Prerequisites: GEOG 211 and GEOG 219 or equivalents; GEOG 320. Recommended: GEOG 101 or GEOS 130.

GEOG 440  Environmental Thought and Action  3.0 SP
Prerequisites: Faculty permission.

I course selected from:

GEOG 301  Global Economic Geography  3.0 SP GC

GEOG 320  Introduction to Community and Rural Planning  3.0 FA

GEOG 438  Urban Geography  3.0 SP
Prerequisite: GEOG 102.

GEOG 439  American Cultural Landscapes  3.0 FA
Prerequisite: GEOG 390 with a C- or higher for Geography majors.

Note: Any 3-unit upper-division course from outside the department may be selected with advisor approval.

Electives Requirement:
To complete the total units required for the bachelor's degree, select additional elective courses from the total University offerings. You should consult with an advisor regarding the selection of courses which will provide breadth to your University experience and possibly apply to a supportive second major or minor.

**Grading Requirement:**

All courses taken to fulfill major course requirements must be taken for a letter grade except those courses specified by the department as Credit/No Credit grading only.

**Advising Requirement:**

Advising is mandatory for all majors in this degree program. Consult your undergraduate advisor for specific information.

**Honors in the Major:**

Honors in the Major is a program of independent work in your major. It requires 6 units of honors course work completed over two semesters.

The Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the University for submission in professional journals, presentation at conferences, or academic competition. Such experience is valuable for graduate school and professional life. Your honors work will be recognized at your graduation, on your permanent transcripts, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair.

Some common features of Honors in the Major program are:

1. You must take 6 units of Honors in the Major course work. All 6 units are honors classes (marked by a suffix of 'H'), and at least 3 of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each class with a minimum grade of B.
2. You must have completed 9 units of upper-division course work or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements for your major carefully, as there may be specific courses that must be included in these units.
3. Your cumulative GPA should be at least 3.5 or within the top 5% of majors in your department.
4. Your GPA **in your major** should be at least 3.5 or within the top 5% of majors in your department.
5. Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the 6 units of course work over the two semesters of their senior year.
6. Your honors work culminates with a public presentation of your honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major advisor to apply.

**Geography and Economics Double Major**

Students may take two geography and two economics courses from the following list. All 12 units will count toward both majors (geography courses will count toward 100-level electives in the economics major).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Session</th>
<th>GE/GEA/SP/SPGE</th>
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</thead>
<tbody>
<tr>
<td>ECON 365</td>
<td>Environmental Economics</td>
<td>3.0</td>
<td>FS</td>
<td>GE</td>
</tr>
<tr>
<td>ECON 375</td>
<td>The Developing Countries</td>
<td>3.0</td>
<td>FA</td>
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<tr>
<td>Prerequisites: ECON 103.</td>
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<tr>
<td>ECON 376</td>
<td>Economics of the Pacific Rim</td>
<td>3.0</td>
<td>SP</td>
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<tr>
<td>Prerequisites: ECON 101 or ECON 102 or faculty permission.</td>
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<tr>
<td>ECON 462</td>
<td>Urban-Regional Economics</td>
<td>3.0</td>
<td>FS</td>
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<tr>
<td>Prerequisites: ECON 301.</td>
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<tr>
<td>ECON 465</td>
<td>Economics of Energy</td>
<td>3.0</td>
<td>SP</td>
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<tr>
<td>Prerequisites: ECON 301.</td>
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<tr>
<td>ECON 466</td>
<td>Environmental and Natural Resource Economics</td>
<td>3.0</td>
<td>FA</td>
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<tr>
<td>Prerequisite: ECON 301.</td>
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<tr>
<td>GEOG 301</td>
<td>Global Economic Geography</td>
<td>3.0</td>
<td>SP</td>
<td>GC</td>
</tr>
<tr>
<td>GEOG 304</td>
<td>Environmental Issues</td>
<td>3.0</td>
<td>FS</td>
<td>GE</td>
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<td>GEOG 320</td>
<td>Introduction to Community and Rural Planning</td>
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<td>FA</td>
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<td>Urban Geography</td>
<td>3.0</td>
<td>SP</td>
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<td>Prerequisite: GEOG 102.</td>
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**Geography and History Double Major**
Students may elect a geography and history double major. Up to 6 units of appropriate upper-division history courses (HIST) may be applied to the geography major. Prior approval by a department advisor and the chair is required.