COMMITTEE ON INSTRUCTION AND CURRICULUM

17-18 CIC 16
November 6, 2017

TO: The Executive Committee
FROM: The Committee on Instruction and Curriculum (CIC)
SUBJECT: 17-18 CIC 16: Revision of the BS in Geography

ACTION REQUESTED: That the Senate accept the information that the revision request for the BS in Geography has been approved

BACKGROUND INFORMATION:
The Senate process for approving transformed programs for the semester calendar is defined by 14-15 CIC 36. CIC discussed the revision of the BS in Geography in its November 6 meeting where a member of AGES was present to answer questions. It was unanimously approved. The proposal may be viewed within Curriculog, the summary is attached.
Geography Bachelor of Science

2. Semester Conversion Request for Approval of Revision of the Undergraduate Degree Program/Major

General Catalog Information

***READ BEFORE YOU BEGIN***

Use this form to request a revision to your Undergraduate Degree Program/Major and its concentration(s).

To **change the title of your degree** program, a narrative will need to be submitted to APGS for review by CIC and the state chancellor's office. [Click here](#) to submit your narrative.

To **move an existing degree to online**, complete form #7. Semester Conversion Request for Online/Hybrid Program Modification.

To **elevate an option to a degree or change the degree type**, a narrative will need to be submitted to APGS for review by CIC and the state chancellor's office, [Click here](#) to submit your narrative.

**Turn on Help Text** by clicking the Show Help Text icon above this section of the form.

**Effective Term: Fall 2018**

**Catalog: 2018-2019**

Select **Shared Core** unless otherwise instructed by APGS

Select **SHARED CORE**

Notes: If you want to move an existing degree program to online (i.e. 50% or more of the program can be completed online (a hybrid course counts as .50 online), elevate an option to a degree, or change the degree type, please e-mail Donna Wiley, Interim Associate Vice President, Academic Programs and Graduate Studies; and copy Sarah Aubert, Catalog and Curriculum Specialist, Academic Programs and Graduate Studies, for additional instructions as soon as possible.
Department: Department of Anthropology, Geography and Environmental Studies

Full and exact title of Major including degree earned: Geography Bachelor of Science

Has your program received transformation funding? Yes

If the program received transformation funding, please summarize the transformative changes made: N/A

Program Description, Career Opportunities, Features, Program Learning Outcomes:

Geography
Department of Anthropology, Geography and Environmental Studies
College of Letters, Arts, and Social Sciences
Office: Robinson Hall 220
Phone: (510) 885-3193; FAX: (510) 885-2353
Website: http://www20.csueastbay.edu/class/departments/ages/index.html

Professor Emeritus
Scott Stine, Ph.D. University of California, Berkeley

Professors
Karina Garbesi, Ph.D. University of California, Berkeley
David Larson (Chair), Ph.D. University of California, Berkeley
Michael Lee, Ph.D. London School of Economics (UK)
Gary Li, Ph.D. State University of New York at Buffalo

Associate Professor
David Woo, Ph.D. University of California, Santa Barbara

Program Description
Geography is the study of spatial distributions, relations, processes and outcomes within the human-environment system. Attention is focused on historical and contemporary human activities in the natural and built
environment, and on people as the major physical, social, cultural and economic change agents across the Earth’s surface. A curriculum in Geography helps students understand the world’s physical, social, economic and cultural landscapes and how they have been transformed or altered by either the Earth’s natural processes or human modifications, and the future sustainability of our current actions in the light of our past experiences and ongoing trends such as urbanization, globalization and climate change.

At Cal State East Bay, Geography BS students can choose between three concentrations in addition to their common core of classes: Resources and Sustainability, Regions and Culture, and Spatial Techniques. These concentrations permit our majors to relatively easily dovetail into second majors, minors or certificate programs especially in Environmental Studies (BA and minor), International Studies (BA and minor), Certificate in Sustainability and Certificate in Cartography and GIS and to study abroad for a semester or year. A BS in Geography provides a valuable multi-perspective education of vital importance in this age of globalization and cumulative environmental change, a period that scientists are labeling the “Anthropocene”. Graduates are primed to enter multiple professional fields or go on to a range of graduate programs related to environmental and resource management, planning and administration, sustainable development, and spatial data analysis. The major requires 43-47 units, 18 lower division and 25-29 upper division depending on the courses chosen for the concentration. The lower division portion aligns with the California Community College transfer Associate of Arts degree in Geography.

**Career Opportunities**

Career opportunities are highly diverse, depending on the student’s interests and skills and new opportunities are rapidly emerging and expanding. Our graduates work in all sectors: governmental, non-profit, private, and education in areas such as environmental management, urban and rural planning, public utility services (water, energy, waste, etc.), outdoor recreation and administration (parks and recreation), local government, humanitarian and development assistance, sustainable food systems, education, and the application of geographical and other spatial information systems in the private and public sectors. Our students pursue graduate degrees in many fields including geography, urban and regional planning, environmental science, sustainability, geographical information systems, and other related disciplines.

Job titles include, but are not limited to:

- Aerial Photo Interpreter
- Agricultural/Food Systems Specialist
- Cartographer
- Census Analyst
- Climatologist
- Community Development Specialist
Program Learning Outcomes

Graduates with a BS degree in Geography should be able to:

1. Synthesize geographic knowledge, apply research strategies and use quantitative tools to solve problems of a geographic nature and relevant to a changing world (e.g. in resource management, spatial analysis, environmental change, and sustainable development)

2. Identify and communicate key geographical processes, ideas, concepts and outcomes orally, in writing, and through the use of geographical information systems (GIS) and other spatial representations

3. Identify, describe and explain the environmental, social, cultural, economic and other key characteristics and dynamics of different world regions

4. Demonstrate effective teamwork ability by contributing to successful execution of group projects in the classroom, GIS laboratory and/or in the field

5. Identify, describe and explain how local, regional and global environmental, human societal, and economic processes and their outcomes are related to sustainable development

Features

With the arrangement of a faculty advisor, students in the Bachelor of Science in Geography program can select from the following fields of concentration: Resources and Sustainability, Regions and Cultures, and Spatial Techniques. The Resources and Sustainability concentration will
allow the student to relatively easily, with the addition of one or two additional electives (for which they have plenty of room in their 120 units) satisfy the first of the two AGES certificate programs open to students from all majors; the Certificate in Sustainability is for those wanting a specialization in the field of sustainable resource and environmental management. Students may elect to pursue a double major with Environmental Studies should they wish to demonstrate added emphasis in this field to potential employers; this will require careful advising to ensure that the two degrees can be achieved by the right combination of double-counting electives and judicious overlapping between degree electives and GE. The **Regions and Cultures** concentration is also designed to provide value-added opportunities for students; it permits seamless participation in one of our supported Study Abroad programs, especially the year long CSU International Programs. Students pursuing this concentration can satisfy all their concentration requirements studying in a foreign university, advancing to graduation in the major through studying equivalent classes overseas. The university has a goal to greatly expand the number of students studying abroad and Geography majors are prime candidates for these programs; with this concentration specifically tailored to students with global interests, the ability to study abroad for a year or semester with maximal incorporation of the overseas classes into satisfying the major requirements is enhanced. The **Regions and Cultures** concentration also allows students to double major with the International Studies BA (INTS) should they wish to demonstrate added emphasis in the field of globalization and global studies to potential employers. Courses taken for the geography concentration would satisfy the upper division emphasis required by INTS. Finally, the **Spatial Techniques** concentration will allow the student to satisfy the second of the two AGES certificate programs open to students from all majors; the Certificate in Cartography and GIS for those wanting to learn skills and methods in data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps. This is a growing field and students of any discipline, not just Geography, are in demand if they have the skill set obtained through this concentrated program of study.

In addition to these opportunities to double major in the closely allied disciplines of Environmental Studies (ENVT BA) and International Studies (INTS BA), the program offers an elective internship opportunity through GEOG 398 Cooperative Education, through which individual students can gain practical experience with public, private, or volunteer agencies and further develop their career goals and attractiveness to employers.

**Click here to see instructions** before completing the following Major Requirements field.
**Lower Division (18 units)**

**Students must take all of the following five (5) courses (15 units):**

- GEOG 110 Physical Geography: Earth Processes and Outcomes (3)
- GEOG 120 Human Geography: Diversity and Globalization (3)
- GEOG 125 World Regions and Development (3)
- GEOG 200 Sustainable Resource Management (3)
- GEOG 225 Fundamentals of GIS (3)

**Students must also take one (1) of the following (3 units):**

- ENVT 101 Environmental Challenges of the 21st Century (3)
- ANTH 130 Introduction to Cultural Anthropology (3)

**Upper Division (13 units)**

**Students must take all of the following four (4) courses (13 units):**

- GEOG 310 Literature and Research Methods (4)
- GEOG 340 Climate Change (3)
- GEOG 425 Advanced GIS (3)
- GEOG 499 Senior Seminar in Geography (3)

**Concentration (12-16 units)**

**Students must take one (1) of the following concentrations.**

**Resources and Sustainability Concentration (15 - 16 units)**

**Students must take four (4) of the following courses (15 - 16 units):**

- GEOG 445 Water and Watershed Resources (4)
### Regions and Cultures Concentration (12 units)

Students must take four (4) of the following courses (12 units):

- GEOG 330 Historical Geography of North America (3)
- GEOG 336 Asian Americans: Multiculturalism and Spatial Disparity (3)
- GEOG 350 California (3)
- GEOG 351 United States and Canada (3)
- GEOG 352 Latin America and the Caribbean (3)
- GEOG 353 Africa (3)
- GEOG 354 China: Economic Development and Social Transformation (3)
- GEOG 355 Asia Pacific (3)
- GEOG 356 Europe (3)

### Spatial Techniques Concentration (12 - 13 units)

Students must take four (4) of the following courses (12 - 13 units):

- GEOG 320 Environmental Resource Analysis (4)
- GEOG 360 Computer Cartography (3)
- GEOG 380 Applied Field Studies (3)
- GEOG 461 Remote Sensing of the Environment (3)
- GEOG 462 Air Photo Interpretation (3)

### Total Units Required

<table>
<thead>
<tr>
<th>Quarter Based Program: *</th>
<th>61-73</th>
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<tbody>
<tr>
<td>Semester Based Program: *</td>
<td>43-47</td>
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</tbody>
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Total Units should not exceed 120 Semester Units unless previously approved by Chancellor’s Office for exemption.

**B.A. Programs:** Major requirements are a minimum of 24 units with at least 12 upper division units.
B.S. Programs: Major requirements are a minimum of 36 units with at least 18 upper division units.

See [Unit Calculator](#) for assistance.

### Additional Notes/Information

None

If the program has a similar transfer model curriculum (TMC), please e-mail Kyle Burch, Articulation Officer, Academic Programs and Graduate Studies, to verify that the revised program meets the TMC requirements prior to submitting the program revision request form.

### Is the major approved as a "similar" degree under the STAR Act (SB 1440)?

- Yes
- No
- I'm not sure (Articulation Office will contact you)

If yes, explain how this modification will affect the "similar" degree agreement

The Geography BS degree has been modified in the lower division portion to reflect the approval of the Transfer Model Curriculum for Geography TOP Code 220600. Around half of our majors come from community college transfers and thus it is appropriate to align our lower division portion with the pattern of courses students will have arriving from California Community Colleges.

- GEOG 110 Physical Geography: Earth Processes and Outcomes (3)
- GEOG 120 Human Geography: Diversity and Globalization (3)
- GEOG 125 World Regions and Development (3)
- GEOG 200 Sustainable Resource Management (3)
- GEOG 225 Fundamentals of GIS (3)
- Elective (choose from ANTH 130 Introduction to Cultural Anthropology (3) or ENVT 101 Environmental Challenges of the 21st Century (3)

The TMC requires 18 semester units; a core of Physical and Human Geography (Community College students are required to take an additional
We did not have formal concentrations (options) in the previous quarter system program although, as indicated in the catalog, students would be advised to focus on particular areas of concentration (aka emphasis) within their choice of courses: biogeography, cartography, cultural geography, economic geography, historical geography, history and philosophy of geography, physical geography, regional geography, resource management and sustainability. We did have two degrees – a BS and a BA - and the BA was discontinued. The formal concentrations in the semester degree are an attempt to provide more effective advising and structure for our majors and they reflect the three broad themes and strengths offered by our faculty and the prime interests of our students who most commonly seek to go into a resources management and sustainable development and planning related field, a spatial techniques related field, or a field in which knowledge of the world is paramount (from teaching to humanitarian work). All three fields are expected to grow in importance over the coming years. Having these concentrations provides appropriate structure to the degree paths without constraining the students. The geography program has historically offered many classes taken as electives or for GE by other majors (such as HIST, INTS, ANTH, LBST) and we plan for this to continue. If majors were to take just electives a la carte, so to speak, the choice of classes would be so broad as to offer little pedagogic cohesion to their studies. Note that previously, geography majors were required to meet a proficiency requirement either in upper division statistics, calculus (level III), or a modern language (at least one-year at university level). This requirement
has also been discontinued. Geography students wishing to further develop their quantitative or language skills have ample opportunity to do so given that they will have around 25 free elective units not required by the major or by GE and can thus take classes from across the curriculum to meet their personal goals. They can also take additional geography classes to, in effect, get more than one concentration and/or develop an even deeper training in any one concentration area.

Is this major approved as an online degree program?*  
[ ] Yes  [ ] No

If no, is there any pathway in the revised degree that is more than 50% online?  
[ ] Yes  [ ] No

Resource implications of the proposed revision, if any:  
There are no expected resource implications. All the proposed courses could be taught by existing faculty and with existing facilities, equipment and library resources (or those that will be acquired or updated based on standard requests to existing sources of funding on campus).

Relationship of Revised Program to requirements for teaching credentials, accreditation, and/or licensing, if any:  
None

Consultation with other affected departments and programs:

The following department(s) has (have) been consulted and raised no objections:*  
[ ] Did not consult any departments outside of my own/no other departments are impacted.

The following department(s) has (have) been consulted and raised concerns:  
[ ] Did not consult any departments outside of my own/no other departments are impacted.
Attachments

Please scroll to the top of this form and select the *Files* icon to attach the following documents to your proposal:

- Bachelor's Degree Roadmap
- Curriculum Map 1 - PLOs to Courses
- Curriculum Map 2 - PLOs to ILOs
- Five Year Assessment Plan

Did you attach your Curriculum Maps, Five Year Assessment Plan or other supporting documents to this proposal?

- [ ] Yes
- [ ] No

Catalog Item Types

<table>
<thead>
<tr>
<th>Degree Type*</th>
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<tr>
<td>Program Type*</td>
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