MINOR IN GEOGRAPHIC INFORMATION SCIENCE

SACRAMENTO STATE
Redefine the Possible

In Workflow

1. GEOG Chair (jwanket@csus.edu)
2. NSM College Committee Chair (mikkel.jensen@csus.edu)
3. NSM Dean (datwyler@csus.edu)
4. Academic Services (catalog@csus.edu)
5. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
6. Dean of Undergraduate (james.german@csus.edu; celena.showers@csus.edu)
7. Dean of Graduate (cnewsome@skymail.csus.edu)
8. Catalog Editor (torsetj@csus.edu)
9. Registrar's Office (wlindsey@csus.edu)
10. OIREP (pillais@csus.edu)

Approval Path

1. Wed, 08 Dec 2021 19:40:18 GMT
   James Wanket (jwanket): Approved for GEOG Chair
2. Thu, 03 Feb 2022 01:45:27 GMT
   Mikkel Jensen (mikkel.jensen): Approved for NSM College Committee Chair
3. Thu, 17 Feb 2022 22:57:54 GMT
   Shannon Datwyler (datwyler): Approved for NSM Dean

History

1. May 2, 2018 by clmig-jwehrheim

Date Submitted: Wed, 08 Dec 2021 18:14:00 GMT

Viewing: Minor in Geographic Information Science

Last approved: Wed, 02 May 2018 14:34:50 GMT

Last edit: Thu, 03 Feb 2022 01:45:08 GMT

Changes proposed by: Matt Schmidtlein (211414750)

Academic Group: (College)

Natural Sciences & Mathematics

Academic Organization: (Department)

Geography

Catalog Year Effective:

2022-2023 Catalog

Individual(s) primarily responsible for drafting the proposed degree major program:

Name (First Last)	Email	Phone 999-999-9999
Matt Schmidtlein	schmidtlein@csus.edu	916-278-7581

Type of Program Proposal:

Minor

Program Change Type:

Non-Substantive

Title of the Program:

Minor in Geographic Information Science

Designation: (degree terminology)

Minor

Briefly describe the program proposal (new or change) and provide a justification:

The proposal involves adjustments to the required and elective courses for the minor. These changes will ensure that students receiving the minor develop competency in core Geographic Information Science concepts and skills. They are being made to reflect proposed changes in the related GIScience concentration and also take advantage of expanded expertise due to recent faculty hires.

Objectives of the degree program:

Completion of the degree program will equip students with the basic skills and concepts necessary to engage in effective entry, storage, analysis, and communication of geospatial information using Geographic Information Systems.

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines
Integrative learning
Intellectual and practical skills

Will this program be required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

Catalog Description:

Units required for Minor: 18

Program Description

Geography students at Sacramento State explore Earth's natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography's approach emphasizes Earth's spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

As defined by policy http://www.csus.edu/umanual/acadaff/fsm00010.htm, a change in units constitutes a substantive change to the program. If your changes constitute a substantive change, please refer back to the "Program Change Type" field above to ensure that "Substantive" is selected.

Program Requirements: (If new courses are being created as part of a new program, it will be useful to propose courses first.)

Program Requirements

Code	Title	Units
Required Courses (18 Units) [1]		
GEOG 3	Introduction to Maps and Geographic Technologies	3
GEOG 109	Geographic Information Systems	3
GEOG 110	Advanced Geographic Information Systems	3
GEOG 150	Programming for GIS	3
GEOG 155	GIS Data Acquisition and Management	3
Select one of the following:		3
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 151	Programming for GIS II	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
Three units of upper division GIS coursework from another department with permission of the GIS Minor advisor.		
Total Units		**18**

[1] Courses must be selected in consultation and approved by a faculty advisor in Geography. A minimum of 6 upper division units must be earned in residence.

Fiscal Impact to Change an Existing Program

Indicate programmatic or fiscal impact which this change will have on other academic units' programs, and describe the consultation that has occurred with affected units:

We do not anticipate any fiscal impacts on other unit's programs. Our consultation included reviewing a list of majors for students currently proposing the minor (Geology, Biology, and Environmental Studies). I emailed the chairs of these departments describing the proposed changes and askingfor feedback. I received supportive responses from the chairs of Biology and Environmental Studies, and no response from the chair of Geology. This correspondence is found in the attached document.

Attach a copy of correspondence with these units:

Correspondance re Proposed Changes to GIS Minor.pdf

Provide a fiscal analysis of the proposed changes:

The proposal does not involve any change in units, and it is not expected that it will lead to changes in courses offered or faculty demand.

How will the above changes be accommodated within the department/College existing fiscal resources?

These changes are not expected to impact course schedule or faculty demand. As a result, we should be able to accomodate these changes using existing resources.

Will the proposed changes require additional resources?

No

What additional space, equipment, operating expenses, library, computer, or media resources, clerical/technical support, or other resources will be needed?

No additional space will be required.

Estimate the cost and indicate how these resource needs will be accommodated:

No additional costs are expected.

Key: 209