

GEOG 110: SPATIAL ANALYSIS IN GIS

In Workflow

1. GEOG Chair (jwanket@csus.edu)
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3. NSM Dean (datwyler@csus.edu)
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8. Catalog Editor (catalog@csus.edu)
9. Registrar's Office (w lindsey@csus.edu)
10. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Wed, 08 Dec 2021 19:40:29 GMT
James Wanket (jwanket): Approved for GEOG Chair
2. Thu, 03 Feb 2022 01:44:18 GMT
Mikkel Jensen (mikkel.jensen): Rollback to Initiator
3. Thu, 17 Feb 2022 17:10:16 GMT
James Wanket (jwanket): Approved for GEOG Chair
4. Fri, 04 Mar 2022 01:20:11 GMT
Mikkel Jensen (mikkel.jensen): Approved for NSM College Committee Chair
5. Fri, 04 Mar 2022 16:56:24 GMT
Shannon Datwyler (datwyler): Approved for NSM Dean

Date Submitted: Thu, 03 Feb 2022 18:40:45 GMT

Viewing: GEOG 110 : Spatial Analysis in GIS

Last edit: Thu, 03 Feb 2022 18:40:44 GMT

Changes proposed by: Matt Schmidlein (211414750)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Schmidlein, Matt	schmidlein@csus.edu	916-278-7581

Catalog Title:

Spatial Analysis in GIS

Class Schedule Title:

Spatial Analysis in GIS

Academic Group: (College)

NSM - Natural Sciences & Mathematics

Academic Organization: (Department)

Geography

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2022 (2022/2023 Catalog)

Subject Area: (prefix)

GEOG - Geography

Catalog Number: (course number)

110

Course ID: (For administrative use only.)

134591

Units:

3

Is the primary purpose of this change to update the term typically offered or the enforcement of prerequisites at registration?

No

In what term(s) will this course typically be offered?

Spring term only

Does this course require a room for its final exam?

Yes, final exam requires a room

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

We are requesting a name change to the course to more simply communicate the focus for the course, as well as updating the course description. Finally, we are proposing that this be paired with a graduate level version of the course.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)

Focus on core raster and vector analytical functions within GIS needed by a beginning GIS analyst. Students will acquire conceptual understanding of these functions, and the technical ability to apply them within industry-standard GIS software.

Are one or more field trips required with this course?

No

Fee Course?

No

Is this course designated as Service Learning?

No

Does this course require safety training?

No

Does this course require personal protective equipment (PPE)?

No

Does this course have prerequisites?

Yes

Prerequisite:

GEOG 109 or instructor permission.

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Discussion
Laboratory

Discussion Classification

CS#04 - Lecture /Recitation (K-factor=1 WTU per unit)

Discussion Units

2

Laboratory Classification

CS#16 - Science Laboratory (K-factor=2 WTU per unit)

Laboratory Units

1

Is this a paired course?

Yes

Please confirm that it complies with the Paired Courses Policy and enter the course with which it is paired:

Geog 210

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."

Students will be able to:

- 1) Explain the conceptual underpinnings of and basic approaches to core raster and vector analytical approaches.
- 2) Implement core raster and vector analyses using industry-standard GIS software.
- 3) Formulate spatial questions that can be answered using GIS.
- 4) Design and implement analytical methodologies based on these core functions to answer spatial research questions.
- 5) Communicate information about spatial analyses and results.

Attach a list of the required/recommended course readings and activities:

Geog 110 F21 Form A Required Materials and Activities.docx

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.

Weekly reading quizzes: LO1

Weekly In-class participation (via student response systems): LO1

Two exams: LO1

Ten lab assignments: LO2

Final project proposal: LO3, LO4

Final project presentation (oral in-class presentation of project and results): LO4 and LO5

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

Yes

Identify the program(s) in which this course is required:**Programs:**

BA in Geography (Geographic Information Science)

BA in Geography (Human Geography)

BA in Geography (Metropolitan Area Planning)

BA in Geography (Physical Geography)

Minor in Geographic Information Science

Minor in Geography

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines
Intellectual and practical skills

Is this course 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

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

Reviewer Comments:

Mikkel Jensen (mikkel.jensen) (Thu, 03 Feb 2022 01:44:18 GMT): Rollback: • Please update semester offered • Please change "Cross-listed" to "paired" in the course justification • Please review course description for typos • Please review assessment strategies for typos

Key: 2305