GEOG 210: SPATIAL ANALYSIS IN GIS

In Workflow

1. GEOG Chair (schmidmc@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 (gardner@csus.edu)
7. Dean of Graduate (cnewsome@skymail.csus.edu)
8. Catalog Editor (catalog@csus.edu)
9. Registrar's Office (k.mcfarland@csus.edu)
10. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Thu, 13 Jul 2023 18:17:37 GMT
   Matt Schmidtlein (schmidmc): Rollback to Initiator
2. Tue, 07 May 2024 22:29:33 GMT
   Matt Schmidtlein (schmidmc): Approved for GEOG Chair
3. Wed, 04 Sep 2024 22:53:57 GMT
   Mikkel Jensen (mikkel.jensen): Approved for NSM College Committee Chair
4. Wed, 04 Sep 2024 23:21:44 GMT
   Chris Taylor (ctaylor): Approved for NSM Dean

New Course Proposal

Date Submitted: Tue, 07 May 2024 02:19:13 GMT

Viewing: GEOG 210 : Spatial Analysis in GIS

Last edit: Wed, 04 Sep 2024 22:53:35 GMT

Changes proposed by: Anna Patterson (219679266)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Matt Schmidtlein	schmidtlein@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)
210

Course ID: (For administrative use only.)
TBD

Units:
3

Is the only purpose of this change to update the term typically offered or the enforcement of existing requisites at registration?
No

In what term(s) will this course typically be offered?
Fall 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:
The department is seeking to create a paired graduate version of an existing course (Geog 110) in order to better serve the needs of graduate students in non-Geography programs within NSM and across the university.

Course Description: (Not to exceed 90 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 aquire conceptual understandings of these functions, and the technical ability to apply them within industry-standard GIS software. Course intended for graduate students only.

Are one or more field trips required with this course?
No

Fee Course?
No

Is this course designated as Service Learning?
No

Is this course designated as Curricular Community Engaged 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 109/209 or instructor consent.

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 110

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 and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	Explain the conceptual underpinnings of and basic approaches to core raster and vector analytical approaches.	-Weekly reading quizzes -Weekly In-class participation (via student response systems) -Two exams
2	Implement core raster and vector analyses using industry-standard GIS software.	-Ten lab assignments
3	Formulate spatial questions that can be answered using GIS.	-Final project proposal
4	Incorporate findings from relevant GIScience literature into the design of geospatial analytical methods.	-Final project proposal -Final project presentation (oral in-class presentation of project and results) -Final project paper
5	Design and implement analytical methodologies based on core GIScience functions to answer spatial research questions.	-Final project proposal -Final project presentation (oral in-class presentation of project and results) -Final project paper
6	Communicate information about spatial analyses and results.	-Final project presentation (oral in-class presentation of project and results) -Final project paper

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

Geog 210 F21 Form A Required Materials and Activities.docx

For whom is this course being developed?

Majors of other Depts

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

Yes

Has a corresponding Program Change been submitted to Workflow?

No

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

Programs:
Graduate Minor in Geographic Information Systems

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

Graduate (Masters) Learning Goals:

Disciplinary knowledge
Communication
Critical thinking/analysis
Information literacy
Research (optional)

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

Is this a Graduate Writing Intensive (GWI) course?

No

Reviewer Comments:

Matt Schmidtlein (schmidmc) (Thu, 13 Jul 2023 18:17:37 GMT): Rollback: Adjust PLOs, remove reference to program.

Key: 14589