

GEOG 155: GIS DATA ACQUISITION AND MANAGEMENT

In Workflow

1. GEOG Chair (jwanket@csus.edu)
2. NSM College Committee Chair (tsk@csus.edu)
3. NSM Dean (datwyler@csus.edu)
4. Academic Services (torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
5. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
6. Dean of Undergraduate (james.german@csus.edu;%20celena.showers@csus.edu)
7. Dean of Graduate (cnewsome@skymail.csus.edu)
8. Catalog Editor (torsetj@csus.edu)
9. Registrar's Office (w lindsey@csus.edu)
10. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Fri, 19 Feb 2021 17:39:24 GMT
James Wanket (jwanket): Rollback to Initiator
2. Fri, 19 Feb 2021 18:56:56 GMT
James Wanket (jwanket): Approved for GEOG Chair
3. Wed, 03 Mar 2021 23:26:36 GMT
Thomas Krabacher (tsk): Approved for NSM College Committee Chair
4. Wed, 03 Mar 2021 23:27:06 GMT
Shannon Datwyler (datwyler): Approved for NSM Dean

New Course Proposal

Date Submitted: Fri, 19 Feb 2021 18:36:16 GMT

Viewing: GEOG 155 : GIS Data Acquisition and Management

Last edit: Fri, 19 Feb 2021 18:36:15 GMT

Changes proposed by: Anna Patterson (219679266)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Anna Patterson	anna.kp@csus.edu	858-663-2955

Catalog Title:

GIS Data Acquisition and Management

Class Schedule Title:

Data Acquisition & Management

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:

Spring 2022 (2022/2023 Catalog)

Subject Area: (prefix)

GEOG - Geography

Catalog Number: (course number)

155

Course ID: (For administrative use only.)

202854

Units:

3

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

Fall, Spring

Does this course require a room for its final exam?

No, final exam does not require a room (Last Class)

Does this course replace an existing experimental course?

Yes

This course replaces the following experimental course:

GEOG 196D - GIS Data Acquisition and Management

This course complies with the credit hour policy:

Yes

Justification for course proposal:

Permanent course assignment of experimental course GEOG 196D

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

This course focuses on acquisition and management of geospatial datasets and addresses the interpretation of a variety of data formats available in global information systems (GIS). It explores concepts of geospatial data management strategies, primary GIS data creation, secondary data acquisitions, and leveraging leading-edge geospatial data deployments.

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

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):

Laboratory

Lecture

Laboratory Classification

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

Laboratory Units

1

Lecture Classification

CS#02 - Lecture/Discussion (K-factor=1 WTU per unit)

Lecture Units

2

Is this a paired course?

No

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.'

By the end of this course, you will be able to:

1. Clearly document standard operating procedures in GIS data acquisition and management processes
2. Demonstrate development and use of structured naming conventions and file management systems
3. Identify the fundamentals of database systems, design techniques, and their use in organizations
4. Create and alter databases using standard relational database management systems (DBMS) and geodatabase structures
5. Develop entity-relationship diagrams, relational schemas, and data dictionaries given a set of business rules
6. Define, design, and implement attribute domains
7. Write database queries using Structured Query Language (SQL) for a variety of data definition and data manipulation scenarios
8. Define and identify differences between data and file types
9. Describe what metadata is, why it's important, and applicable standards for capturing and documenting metadata
10. Acquire primary geospatial data using GPS and visualize using geospatial software
11. Identify strategies to, and then acquire, secondary geospatial data (ex: Census, DEMs, imagery, boundaries) and visualize using geospatial software

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.

Assessments will include: laboratory assignments (LOs 1, 2, 4-7, 9-11), peer evaluations (LOs 1-2, 8-9), quizzes (LOs 3-9, 11), portfolio (LOs 1, 2, 4, 9, 10-11) and a final project (LOs 1-7, 9-11)

For whom is this course being developed?

Majors in the Dept
 Minors in the Dept
 Majors of other Depts

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

No

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
Integrative learning
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

Please attach any additional files not requested above:

proposedsyllabus_GEOG155.docx

Reviewer Comments:

Anna Patterson (anna.kp) (Fri, 19 Feb 2021 03:14:41 GMT): Simultaneous submission with experimental course 196D (may be appearing as GEOG-TBD-1)

James Wanket (jwanket) (Fri, 19 Feb 2021 17:39:24 GMT): Rollback: Link the assessments directly to learning outcomes.

Key: 14451