

# CEE - 668 - GIS Applications in Civil Engineering

2 Graduate Course Change 2021-22

## I. General Information

The faculty member originating this proposal is to complete sections I,II, and III.

TURN ON help text before starting this proposal by clicking  in the top right corner of the heading.

You will need to turn on help text again after any actions that refresh the page including after saving proposals, importing information, or running impact reports.

IMPORT curriculum data from the Catalog by clicking  in the top left corner.

Do not make any changes to any information until the proposal has been launched in Step 4.

Department\*

Civil and Environmental Engineering and Construction

Prefix\*

CEE

Number\* 668

Long Course Name\* GIS Applications in Civil Engineering

FILL IN ONLY fields required marked with an \* after importing data. You will not be able to launch the proposal without completing required fields. Do not make proposed changes to the information that was imported until after the proposal has been launched in Step 4. Changes will only be tracked after the proposal is launched

Short Course Name  
(leave blank if not  
changing course  
name)

Catalog Description\*

Explores Geographic Information Systems software and hardware and their use in civil engineering. Emphasis on the application of GIS for the planning, design, operations, and maintenance of civil engineering systems, examined practically through a laboratory format. Crosslisted with CEE 468.

Is this course a  
culminating

Yes  No

experience?\*

If Yes, to which programs?

#### Tips for Catalog Description (above)

avoid the use of the words *student*, *course*, and *covers*  
incomplete sentences are ok  
avoid repeating the course title  
(50 words max)

#### Summary of Proposed Changes\*

- Prefix
- Course Number
- Name
- Description
- Credits/Grading
- PreReqs/CoReqs
- Instructional Mode
- Other (e.g. Combination / Cross-listing; Notes; Fees, ...)

#### Effective Term and Year\*

Fall 2021


#### Justification and Description of Course Change:\*

We are requesting to change credit hour distribution to 2.0 lecture and 1.0 laboratory. This request is in parallel with the one subitted for CEE 468. The reasons for this change include:

- 1) Geographic Information Systems is course of practice and students learn through various exercises on computer. A lab session that provides hands-on exercises is more meaningfull for learning applications in civil engineering.
- 2) The course is offered as hybrid. The revised distribution will simplify delivery of lessons materials through LMS. Every week, students complete the lesson and self assessment on their own before coming to the scheduled face-2-face lab session in a classroom.

The rationale for crosslisting is explained in the following key points:

- 1) Graduate students will learn to use GIS in their research for spatial analysis. The amount and level of effort from graduate students is different from undergraduate students. Firstly, graduate students are given additional and advanced problems on homework. Second, they complete a project that generally contributes towards their graduate research.
- 2) This course is already cross listed. We are requesting to match the credit distribution with CEE 468 submitted in a separate request (proposal) on Curriculog.
- 3) Graduate students in civil engineering degree programs often use GIS analysis. This course can prepared their skills of spatial thinking and spatial analysis.

Run an Impact Report by clicking  in the top left corner and answer below according to the results. Copy and paste the results below:

**Degree and/or certificate program(s) impacted by this change (Results of Impact Report)\*** MS and PhD Civil Engineering, MSCM, and MST programs

Substantive changes will necessitate a Program Change form be submitted.

**Detail the changes to the program catalog entry required due to this change.\*** The catalog entry will reflect the change from 3.0 credit hours to 2 credit hours lecture and 1 credit hour lab.

**CROSS-LISTING / Same As, will this course be:\***  Same As=Undergraduate: same content and same career (UG/UG). Graduate: Same/similar course content and same career (Grad/Grad)  
 Cross-listing= Cross-listed courses contain the same or similar content and may be in different programs (eg., WMST 497 & SOC 497) or different careers (e.g., BIOL 467 & BIOL 667 or PSC 722 & PHIL 728)  
 Not Cross-Listed or Same As

**If yes, list the course (or type "none")\*** CEE 468

**Are you adding a Service-Learning designation to this course?\***  Yes  No

If the Service-Learning designation is being added to this course:

A syllabus in Word or PDF format must accompany this form.

Graduate syllabi must meet the minimum criteria as required by the Provost's office (See Semester Memo under Executive Vice President and Provost Policies and Forms <https://www.unlv.edu/policies/current-policies>). Graduate courses that are linked to undergraduate courses (300/500 and 400/600 level joint courses) must clearly state in the syllabus how the class experience and expectations are different for graduate students, what additional requirements students enrolled in the graduate level course must fulfill, and how the grading scale will be applied to graduate students.

Please attach a current syllabus by navigating to the Proposal Toolbox and clicking  in the top right corner.

Information about Service-Learning is available [here](#). Faculty can visit the [faculty Service-Learning page](#) as well as the [UNLV Guide for Service Learning](#) for additional information.

**If adding Service-Learning**  Attached

designation,  
syllabus is attached

## II. Course Change Information

Please review all sections below and make necessary changes after you launch the proposal.

### Prefix and Number Change

Current Prefix  
and/or Number

New Prefix and/or  
Number

### Credit change

Fixed/Variable Credits  Fixed  Variable

If fixed, enter number of credits. If variable, enter minimum and maximum credits (E.g., 1-3)

Number of Credits 3

Course is Repeatable  Yes  No

If yes, the  
maximum number  
of credits that may  
be earned is

### Grading Change

Grading System  Letter Grade  
 S/U  
 Thesis/Dissertation

Does this course  
have any non-credit  
components?  Yes  No

**If yes, indicate component(s)**

- Clinical
- Discussion
- Field Studies
- Independent Study
- Internship
- Laboratory
- Lecture
- Practicum
- Research
- Seminar
- Supervision
- Thesis Research

### **Requisite Change**

(if any) - Graduate standing is the default prerequisite for all graduate-level courses.

**Prerequisites**

CEEC Graduate Standing

**Corequisites**

**Differential fees required for this course? (if yes, please clarify on justification field above)\***

- Yes  No

**Instructional Modes**

- In Person Supplemental Web
- Field Study
- Hybrid
- Independent Study
- Television
- Web-based
- Web-based w/ on/off campus meeting

**Notes Displayed - notes in this field are imported from the current version of the course displayed on the working catalog**

### III. Evaluation of Library Resources

Indicate library resources that will be needed as a result of changes to this course (if applicable)

Will this course change require changes to library resources?\*

Yes  No


Core Journals


Core Books

Electronic Resources

4. LAUNCH proposal by clicking  in the top left corner.

5. After launching the proposal, make all changes and fill in all additional fields.

6. Finish the launch of your proposal by clicking the icon  located in the Proposal Toolbox on left side at top. Make your decision, comment is optional, and click on "Make decision".

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

**\*This section is completed by the librarian\***

Level of support the Library can provide

Library Comments


### IV. Department Vote Information

Note: This section is to be filled out by the Department Chair on behalf of the committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify GradCurriculum@unlv.edu)

1. Review the proposal. Discuss and make appropriate revisions.

2. Fill in vote information.

3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

**Date faculty voted on proposal** January 26, 2021


**Result of vote (Number of yes/no/abstention votes)** 16/0/0

**Manner of vote (online, in-person, etc.)** 16/0/0

## V. Unit Vote Information

**Note:** This section is to be filled out by the College Committee Chair on behalf of the committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify GradCurriculum@unlv.edu)

1. Review the proposal. Discuss and make appropriate revisions.
2. Fill in vote information.
3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

**Date faculty voted on proposal** 2/4/2021

**Result of vote (Number of yes/no/abstention votes)** 4/0/0

**Manner of vote (online, in-person, etc.)** Online

## VII. Processing Notes (Graduate College/Registrar Use Only)

**PS Processing Notes**

**PS Processing Date** 4/21/2021

**Initials** rl

**Aalog Processing  
Notes**

**Aalog Processing** 04/21/2021  
**Date**

**Initials**

EJ



## Comments for CEE - 668 - GIS Applications in Civil Engineering

|  |  |
|--|--|
| <b>Curriculog</b>  | 4/21/2021 11:45 am <a href="#">Reply</a> |
| This proposal has been completed.  |  |
| <b>REG Curriculum</b>  | 4/21/2021 11:45 am <a href="#">Reply</a> |
| Changes to CEE 668 and 468, effective on the 2021-22 Catalogs. Courses now have lecture and lab scheduling components.   |  |
| Dear Department, please contact <a href="mailto:scheduling@unlv.edu">scheduling@unlv.edu</a> if you need assistance with offering the course for the Fall 2021 or Spring 2022. |  |
| Thank you.   |  |
| <b>Curriculog</b>  | 4/21/2021 11:45 am <a href="#">Reply</a> |
| REG Curriculum has approved this proposal on Implementation: Catalog and PeopleSoft.   |  |
| <b>Curriculog</b>  | 4/5/2021 8:24 am <a href="#">Reply</a>   |
| Emily Lin has approved this proposal on Graduate College Dean.   |  |
| <b>Curriculog</b>  | 4/2/2021 10:36 am <a href="#">Reply</a>  |
| James Navalta has approved this proposal on behalf of Graduate Course Review Committee. See <a href="#">Graduate Course Review Committee 3-24-2021</a> for more information.   |  |
| <b>Curriculog</b>  | 4/2/2021 8:44 am <a href="#">Reply</a>   |
| Graduate Curriculum has approved this proposal on Graduate Course Review Committee.  |  |
| <b>Graduate Curriculum</b>   | 3/16/2021 10:25 am <a href="#">Reply</a> |
| Not yet approved -   |  |
| <b>Curriculog</b>  | 3/16/2021 10:25 am <a href="#">Reply</a> |
| Graduate Curriculum has approved this proposal on Graduate Course Review Committee.  |  |
| <b>Graduate Curriculum</b>   | 3/16/2021 10:24 am <a href="#">Reply</a> |
| - moving back for further edits, email communication with proposer.  |  |

**Curriculog**

3/16/2021 10:24 am [Reply](#)

Graduate Curriculum has rejected this proposal on Graduate Course Review Committee.

**Curriculog**

2/8/2021 9:09 am [Reply](#)

Mohamed Trabia has approved this proposal on School/College Associate Dean/ Dean.

**Melissa Morris**

2/4/2021 9:12 pm [Reply](#)

The college committee has voted unanimously to approve this proposal

**Curriculog**

2/4/2021 9:12 pm [Reply](#)

Melissa Morris has approved this proposal on School/College Committee.

**Curriculog**

2/4/2021 11:52 am [Reply](#)

CEEC Chair has approved this proposal on Department Chair.

**Curriculog**

1/28/2021 6:39 pm [Reply](#)

CEEC Graduate Coordinator has approved this proposal on Graduate Coordinator.

**Curriculog**

12/5/2020 0:12 am [Reply](#)

This proposal has passed its deadline and has been approved.

**Curriculog**

12/1/2020 2:15 pm [Reply](#)

Graduate Curriculum has approved this proposal on Technical Review.

**Haroon Stephen**

11/27/2020 2:16 pm [Reply](#)

Updated: The text for rationale has been added to the Description and Justification section.

**Curriculog**

11/27/2020 2:16 pm [Reply](#)

Haroon Stephen has approved this proposal on Originator.

## Graduate Curriculum

11/25/2020 10:18 am [Reply](#)

- Please include Rationale for crosslisting, by answering (in Justification & Description field)

:

1) What aspect of graduate preparation is met via this course that goes beyond the undergraduate program?

2) What common aspects are offered in the crosslistings and what grad level pieces are not?

3) What would be beneficial in offering the crosslisted courses from a graduate education perspective?

It does not need to be a lengthy explanation but one that can identify some key points.

## Curriculog

11/25/2020 10:18 am [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

## Haroon Stephen

11/25/2020 9:19 am [Reply](#)

Please see response to questions and attachment.

## Curriculog

11/25/2020 9:19 am [Reply](#)

Haroon Stephen has approved this proposal on Originator.

## Graduate Curriculum

11/24/2020 1:16 pm [1 Reply](#) | [Reply](#)

"- Please review suggestive revised description. If satisfactory, no action needs to be taken, simply approve the proposal once again. Otherwise please re-edit and approve with comments.

- Please include Rationale for crosslisting, by answering:

- 1) What aspect of graduate preparation is met via this course that goes beyond the undergraduate program?
- 2) What common aspects are offered in the crosslistings and what grad level pieces are not?
- 3) What would be beneficial in offering the crosslisted courses from a graduate education perspective?

It does not need to be a lengthy explanation but one that can identify some key points.

- Please include the crosslisted syllabus highlighting the differences between grad and undergrad.

For help and assistance please contact [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)

Haroon Stephen

11/25/2020 9:17 am

1) Graduate students learn to use GIS in their research for spatial analysis. The amount and level of effort from graduate students is different from undergraduate students. Firstly, graduate students are given additional and advanced problems on homework. Second, they complete a project that generally contributes towards their graduate research.

2) This course is already cross listed. We are requesting to match the credit distribution to match with CEE 468 submitted in a separate request on Curriculog.

3) Grad students in civil engineering degree programs often use GIS analysis. This course prepared their skills of spatial thinking and spatial analysis.

Syllabus is attached with yellow highlighted text on page 2.

Curriculog

11/24/2020 1:16 pm [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

Curriculog

11/19/2020 2:42 pm [Reply](#)

Haroon Stephen has approved this proposal on Originator.

Curriculog

11/19/2020 2:41 pm [Reply](#)

Haroon Stephen has launched this proposal.

## Curriculog

11/19/2020 2:29 pm [Reply](#)

**Haroon Stephen imported from the map 2021-2022 Working Graduate Catalog into the following proposal fields: I.General Information: Department, I.General Information: Prefix, I.General Information: Number, I.General Information: Long Course Name, I.General Information: Catalog Description, II. Course Change Information: Number of Credits, II. Course Change Information: Prerequisites.**