

# Doctor of Philosophy - Civil and Environmental Engineering

## 2 Graduate Program Change 2022-23

### I. General Information

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

Before starting this form, please review graduate curriculum website on policies and processes: <https://www.unlv.edu/graduatecollege/curriculum>

Click "**validate and launch proposal**" **button below.** Once the pop-up window comes up and displays an error message, click on the "show me" button (on the pop-up). This will highlight in red the required fields of this form. Fill in ONLY the red (required) fields.

With all red fields completed, click on the "**validate and launch proposal**" **button** again to launch the proposal. The pop-up this time should not display an error, and will display instead a "**launch proposal**" **button.** Click on the "**launch proposal**" **button** to launch.

**After launch, please fill in all remaining fields in the form to reflect your intended changes, including edits to the schema section of this form (further explained below).**

Department (s) (if Dual or Interdisciplinary please add all departments):\*

Civil and Environmental Engineering and Construction

Degree or Certificate Name:\* Doctor of Philosophy - Civil and Environmental Engineering

Degree Type:\*

Doctor of Philosophy

Program Type:\*

Doctoral

### II. Program Changes

Proposed New CIP Code (if applicable):

Are you changing admission requirements?\*

Yes

No

Are you changing program learning objectives?  Yes  No \*

If yes, describe changes to learning objectives:

The existing learning outcomes should be substituted with the following

1. Demonstrate broad knowledge in the chosen area of their expertise (construction, geotechnical, structural, transportation, and water resources/environmental).
2. Acquire and apply appropriate research methodology to solve contemporary engineering problems related to the area of their expertise.
3. Demonstrate an ability to generate, collect, compile, and interpret research data.
4. Demonstrate that the dissertation contributes new and significant knowledge towards the area of expertise.
5. Demonstrate technical communication skills.

Are you changing course requirements?  Yes  No \*

Are you changing degree completion requirements?  Yes  No \*

Are you changing the culminating experience?  Yes (complete the culminating experience section below)  No \*

Other Changes (e.g. subplan titles,...):  Yes  No \*

If not a Dual itself, is this program also available as part of a Dual-Degree offering?  Yes  No \*

## Summary of Changes

Provide a brief summary of proposed changes:

1. The language under "Career Possibilities" in the catalog needs to be updated.
2. The student learning outcomes need to be updated.
3. Graduate Seminar Course CEE 798 will be an optional course for Ph.D. students, however, the credits will not be counted towards their degree.

**Provide a rationale for each proposed change:**

The first two changes are necessary because the external reviewers reviewed our Ph.D. program in March 2021 and recommended making these changes.

The third change is necessary because our department is starting the Graduate Seminar course and the Ph.D. students should be allowed to take these seminar courses to develop their professional skills.

**Office of Online Education**

Programs that are 100% online must contact the Office of Online Education (<https://www.unlv.edu/provost/online-education>).

Email: [elizabeth.barrie@unlv.edu](mailto:elizabeth.barrie@unlv.edu)

**What is the current delivery/mode of instruction for this program? \***

- 100% face-to-face courses
- Hybrid (some online courses; some face-to-face courses)
- 100% online courses

**Are you changing the delivery/mode of instruction? (select new mode):\***

- 100% face-to-face courses
- Hybrid (some online courses; some face-to-face courses)
- 100% online courses (contact office of online education)
- No Changes

**Required Additional Documents:**

Please attach required documents by navigating to the “attach a file” icon at the right of this form.

Information and forms available at the [Office of the Vice Provost for Academic Programs](#) website.

**If changing to 100% online delivery, please attach the following:**

Assessment Plan - A new assessment plan will be required when adding an exclusively online mode of delivery to a degree and it must be approved by the [Office of Academic Assessment, assessment@unlv.edu](#),

Dean's memo of support

Teach Out Plan (available at the [Office of the Vice Provost for Academic Programs](#) website).

**If 100% Online, attach the required documents and mark the checkboxes:**

- Assessment Plan
- Dean's memo of support
- Teach Out Plan

**Office of Educational Compliance**

Programs that lead to professional licensure or certification must contact the Office of Educational Compliance (<https://www.unlv.edu/provost/ed-compliance>).

Email: [leeann.fields@unlv.edu](mailto:leeann.fields@unlv.edu)

**With this change, does this program lead to professional licensure or certification?\***  Yes (contact office of educational compliance)  No

## SCHEMA SECTION

**Please edit the schema section after launching the proposal. To launch, please complete all other fields of this form and click "validate and launch" at the bottom. If an error message pops up, please click "show me" and fill in all red (missing) fields in the form and click "validate and launch" again until successfully launched.**

In this section, please use the instructions below to change the graduate catalog display of program requirements: descriptions, admissions, courses, degree completion, graduation, etc.

Please note that the new graduate catalog will display the exact information that you edit in this section.

### INSTRUCTIONS:

1. Click on the "View Curriculum Schema" icon at the bottom of the "Schema Section."
2. If you are only adjusting existing content, click on the respective Core you would like to edit, then make your edits and click on "Save" as you go. If you are deleting a subplan or courses, simply delete the respective Cores or courses and adjust the descriptive content accordingly.

If you are adding new subplans and/or adding or substituting courses, please see the steps below:

**Prior to following the steps below, please open in parallel a structurally similar program from the graduate catalog as a reference ([UNLV Graduate Catalog](#)). You will use this reference to review the sections of a program plan, and have direction on expected content.**

3. Click "Add Core" to create blank "Cores." Create as many Cores as you will need. If unsure, refer to other subplans already in this program or to a reference in the graduate catalog to understand how many Cores you need and their expected content.
4. Click on each Core and rename them following your needs or a catalog reference, clicking on "Save" as you go.
5. Add content to all of the cores by clicking within the field to be edited and clicking "Save" as you go. Please note that course sections require instructions of how the credits must be taken (e.g. "Complete x credits by completing all of the following courses," or "Complete x credits of advisor-approved courses," or "Complete 3 credits of course-x and 6 credits of course-z," etc.).
6. To add courses, click on the "View Curriculum Courses" tab at the top of the schema window below, then click on the "Import Course" button at the bottom of the "View Curriculum Courses" window. Click on the available import catalog (only one will be available), and on the import window, select "filter by prefix." (1) Search for your desired course prefix; (2) then click "search available curriculum; (3) then click on all courses that will be imported. Add courses to proposal by clicking, at the very bottom, on the "Add Courses to Proposal" button. Repeat this process as often as you need until all courses are added to the proposal.
7. For courses that do not exist yet at the time of this proposal: Add the courses into the description box of the respective course section in the following way: "PREFIX - NUMBER - Course name, (credits)."
8. Add the courses into their respective course section by clicking "add course" within each course section.

**QUESTIONS?** Step-by-step guides are available at the [Graduate Curriculum Website](#), and at any time please contact [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)

## Plan Description

The Department of Civil and Environmental Engineering & Construction (CEEC) at UNLV offers a number of program degree options leading to the Doctor of Philosophy (Ph.D.) - Civil and Environmental Engineering. Specific areas of engineering that are currently available include Construction, Geotechnical, Structural, Transportation, and Water Resources/Environmental. Two subplans are available (1) Post-Master's subplan and (2) Post-Bachelor's subplan.

**For more information about your program, including your graduate program handbook and learning outcomes please visit the [Degree Directory](#).**

## Plan Admission Requirements

### [Application deadlines](#)

Applications available on the [UNLV Graduate College website](#).

Admission to the program leading to the Ph.D. in Engineering in the field of Civil and Environmental Engineering is open to those students completing the following requirements:

Applications should be submitted in the [Grad Rebel Gateway](#).

The applicant must submit a Statement of Intent (SOI) with no more than two pages, indicating their interests in the area of specialization (construction, geotechnical, structural, transportation, and water resources/environmental) and objectives in working toward a Ph.D. degree.

In addition, three letters of recommendation (LOR) must be submitted from individuals familiar with the applicant's knowledge, skills and abilities. It is highly recommended that LOR documents are created using official letterheads (e.g. academic advisor, academic faculty, professional supervisor). Also, applicants must enter professional email addresses of those sending an LOR.

A short resume (no more than 2 pages) must be submitted.

International applicants must meet English Proficiency requirements established in [UNLV English Proficiency page](#).

All applicants are required to take GRE General Test and submit the scores to the University of Las Vegas, Nevada (code 4861). Successful applicants generally have a combined verbal and quantitative GRE score of at least 300 and analytical writing score of at least 3.

### **Post-Master's Subplan**

The applicant to this subplan must have a Master of Science in Engineering degree or equivalent with a major in civil engineering or a closely allied field. Students with non-engineering backgrounds will be required to complete a set of coursework requirements that will ensure successful completion of the Ph.D. specialization.

A minimum post-baccalaureate GPA of 3.20 on a 4.00 scale (4.00=A) or equivalent is required for admission.

The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after the review of each applicants records and admissions information.

### **Post-Bachelor's Subplan**

The applicant to this subplan must have earned a Bachelor of Science in Engineering degree or equivalent with a major in civil engineering or a closely allied field.

A minimum baccalaureate overall GPA of 3.20 on a 4.00 scale (4.00=A) and GPA of 3.5 for the last 60 credits is required for admission.

The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after the review of each applicants records and admissions information.

All domestic and international applicants must review and follow the [Graduate College Admission and Registration Requirements](#).

*Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.*

## **Plan Requirements**

*See Subplan Requirements below.*

[Subplan 1: Post-Master's](#)

[Subplan 2: Post-Bachelor's](#)

## **Subplan 1 Requirements: Post-Master's**

Total Credits Required: 42

### **Course Requirements**

#### **Elective Courses - Credits: 24**

Complete 24 credits of advisor approved electives, including 9 credits in one of the following concentrations.

#### **Construction**

<b>CEE 609 Engineering Project Management</b>	<b>3</b>
<b>CEE 672 Construction Estimating for Infrastructure Projects</b>	<b>4</b>
<b>CEE 673 Construction Scheduling for Infrastructure Projects</b>	<b>3</b>
<b>CEE 710 Modular Construction</b>	<b>3</b>
<b>CEE 720 Information and Sensing Technology in Construction</b>	<b>3</b>
<b>CEE 730 Foundations of Big Data Analytics for Infrastructure Applications</b>	<b>3</b>
<b>CEE 785 Construction Engineering Management</b>	<b>3</b>

#### **Geotechnical**

<b>CEE 710 Modular Construction</b>	<b>3</b>
<b>CEE 720 Information and Sensing Technology in Construction</b>	<b>3</b>
<b>CEE 730 Foundations of Big Data Analytics for Infrastructure Applications</b>	<b>3</b>
<b>CEE 731 Pavement Materials and Design</b>	<b>3</b>
<b>CEE 732 Advanced Foundation Engineering</b>	<b>3</b>
<b>CEE 734 Advanced Soil Mechanics</b>	<b>3</b>
<b>CEE 736 Earth Slopes and Retaining Structures</b>	<b>3</b>
<b>CEE 737 Soil Dynamics and Earthquake</b>	<b>3</b>

<b>Engineering</b>	
<b>CEE 741 Design of Highway Bridge Structures</b>	<b>3</b>
<b>CEE 785 Construction Engineering Management</b>	<b>3</b>

## **Transportation**

<b>CEE 725 Freight Transportation</b>	<b>3</b>
<b>CEE 726 Railroad Operations</b>	<b>3</b>
<b>CEE 727 Transportation Safety</b>	<b>3</b>
<b>CEE 730 Foundations of Big Data Analytics for Infrastructure Applications</b>	<b>3</b>
<b>CEE 760 Transportation Planning</b>	<b>3</b>
<b>CEE 761 Transportation Demand Analysis</b>	<b>3</b>
<b>CEE 762 Operations Research Applications in Civil Engineering</b>	<b>3</b>
<b>CEE 763 Advanced Traffic Engineering</b>	<b>3</b>
<b>CEE 764 Air Transportation</b>	<b>3</b>

## **Structure**

<b>CEE 741 Design of Highway Bridge Structures</b>	<b>3</b>
<b>CEE 744 Design of Prestressed/Post-Tensioned Concrete Structures</b>	<b>3</b>
<b>CEE 748 Advanced Design of Timber Structures</b>	<b>3</b>
<b>CEE 775 Seismic Response of Structures</b>	<b>3</b>
<b>CEE 780 Advanced Reinforced Concrete Structures</b>	<b>3</b>

## **Water Resources/ Environmental**

<b>CEE 704 Environmental &amp; Water Systems</b>	<b>3</b>
<b>CEE 709 Numerical Methods in Mechanics</b>	<b>3</b>
<b>CEE 750 Urban Runoff Quality and Control</b>	<b>3</b>
<b>CEE 751 Water Reuse Principles and Design</b>	<b>3</b>
<b>CEE 754 Biochemical Wastewater Treatment Fundamentals</b>	<b>3</b>
<b>CEE 755 Advanced Physicochemical Methods for Water Treatment</b>	<b>3</b>
<b>CEE 756 Advanced Waste Treatment Design</b>	<b>3</b>
<b>CEE 757 Engineering Modeling of Natural Systems</b>	<b>3</b>
<b>CEE 758 Air Quality Modeling</b>	<b>3</b>
<b>CEE 759 Mass Transfer in Environmental Systems</b>	<b>3</b>
<b>CEE 768 Applied Geographic Information Svstems</b>	<b>4</b>

## **(Optional) Graduate Internship and Seminar Courses - Credits: 1 - 3**

Students that opt to engage in Curricular Practical Training (CPT) must take 1 credit of CEE 792. This course can be taken a maximum of 3 times during their studies. However, the credits will not be counted towards the degree.

CEE 798 can be taken to a maximum of three credits. However, credits will not be counted towards the degree.

<b>CEE 793 Graduate Internship for PhD Civil &amp; Environmental Engineering</b>	<b>1</b>
<b>[After] CEE - 798: Engineering &amp; Construction Seminar</b>	<b>1 - 3</b>

## **Dissertation – Credits: 18**

<b>CEE 799 Dissertation Research</b>	<b>1 – 9</b>
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## **Degree Requirements**

Complete 24 credits of advisor-approved elective graduate-level coursework.

Doctoral students who have not completed CEE 700, or its 3-credit equivalent, or did not write a thesis as part of their Master of Science studies, will be required to complete CEE 700. CEE 700 course will be counted towards elective credits. In addition to CEE 700, all students must successfully complete a minimum of 21 credits of approved graduate-level coursework beyond the degree of Master of Science in Engineering. For students who have completed CEE 700, or equivalent, during their Master of Science studies, a minimum of 24 credits of approved graduate-level coursework is required.

A Doctoral Advisory Committee composed of at least five members of the UNLV graduate faculty is to be formed for the student. At least three of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the fourth member from a related field. The fifth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is strongly recommended that the Doctoral Advisory Committee collective expertise reflects the dissertation topic. The committee chair must be a tenured or tenure-track CEEC faculty from the area of expertise chosen for dissertation topic.

In addition to the coursework requirements, a dissertation consisting

in addition to the coursework requirements, a dissertation consisting of at least 18 credits of CEE 799 is required with the outcome being

manuscripts written for a specific indexed conference or journal.

At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

At least 50% of the courses within the total coursework must be 700 level.

Students must maintain a minimum grade point average of 3.00. A course, in which a grade of less than C was earned, will not be considered for use toward the degree.

Students must take doctoral qualifying exam including a written component prepared by the student's graduate committee. The graduate committee shall provide the examination to the CEEC Department Graduate Coordinator who will administer the written qualifying exam for the CEEC Department on scheduled dates.

Students who have not passed the qualifying exam by their second attempt will be terminated from the Ph.D. program.

After passing the qualifying exam in one area of specialty, the student moves to other area of specialty by changing the advisor; they must retake the qualifying exam in the new area of specialty chosen by the student.

After passing the qualifying exam, the doctoral student must pass a preliminary exam consisting of the preparation of a written proposal for the dissertation research followed by an oral defense of the proposal. The proposal must be approved by the student's Doctoral Advisory Committee.

## **Graduation Requirements**

The student must submit all required forms to the Graduate College as well as apply for graduation up to two semesters prior to completing their degree requirements.

The student must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.

After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found [here](#).

## Subplan 2 Requirements: Post-Bachelor's

Total Credits Required: 60

### Course Requirements

#### Elective Courses - Credits: 42

Complete 42 credits of advisor approved electives, including 9 credits in one of the following concentrations.

#### Construction

CEE 609 Engineering Project Management	3
CEE 672 Construction Estimating for Infrastructure Projects	4
CEE 673 Construction Scheduling for Infrastructure Projects	3
CEE 710 Modular Construction	3
CEE 720 Information and Sensing Technology in Construction	3
CEE 730 Foundations of Big Data Analytics for Infrastructure Applications	3
CEE 785 Construction Engineering Management	3

#### Geotechnical

CEE 710 Modular Construction	3
CEE 720 Information and Sensing Technology in Construction	3
CEE 730 Foundations of Big Data Analytics for Infrastructure Applications	3
CEE 731 Pavement Materials and Design	3
CEE 732 Advanced Foundation Engineering	3
CEE 734 Advanced Soil Mechanics	3
CEE 736 Earth Slopes and Retaining Structures	3
CEE 737 Soil Dynamics and Earthquake Engineering	3
CEE 741 Design of Highway Bridge Structures	3
CEE 785 Construction Engineering Management	3

## **Transportation**

<b>CEE 725 Freight Transportation</b>	<b>3</b>
<b>CEE 726 Railroad Operations</b>	<b>3</b>
<b>CEE 727 Transportation Safety</b>	<b>3</b>
<b>CEE 730 Foundations of Big Data Analytics for Infrastructure Applications</b>	<b>3</b>
<b>CEE 760 Transportation Planning</b>	<b>3</b>
<b>CEE 761 Transportation Demand Analysis</b>	<b>3</b>
<b>CEE 762 Operations Research Applications in Civil Engineering</b>	<b>3</b>
<b>CEE 763 Advanced Traffic Engineering</b>	<b>3</b>
<b>CEE 764 Air Transportation</b>	<b>3</b>

## **Structure**

<b>CEE 741 Design of Highway Bridge Structures</b>	<b>3</b>
<b>CEE 744 Design of Prestressed/Post-Tensioned Concrete Structures</b>	<b>3</b>
<b>CEE 748 Advanced Design of Timber Structures</b>	<b>3</b>
<b>CEE 775 Seismic Response of Structures</b>	<b>3</b>
<b>CEE 780 Advanced Reinforced Concrete Structures</b>	<b>3</b>

## **Water Resources/ Environmental**

<b>CEE 704 Environmental &amp; Water Systems</b>	<b>3</b>
<b>CEE 709 Numerical Methods in Mechanics</b>	<b>3</b>
<b>CEE 750 Urban Runoff Quality and Control</b>	<b>3</b>
<b>CEE 751 Water Reuse Principles and Design</b>	<b>3</b>
<b>CEE 754 Biochemical Wastewater Treatment Fundamentals</b>	<b>3</b>
<b>CEE 755 Advanced Physicochemical Methods for Water Treatment</b>	<b>3</b>
<b>CEE 756 Advanced Waste Treatment Design</b>	<b>3</b>
<b>CEE 757 Engineering Modeling of Natural Systems</b>	<b>3</b>
<b>CEE 758 Air Quality Modeling</b>	<b>3</b>
<b>CEE 759 Mass Transfer in Environmental Systems</b>	<b>3</b>
<b>CEE 768 Applied Geographic Information Systems</b>	<b>4</b>

## **(Optional) Graduate Internship and Seminar Courses - Credits: 1 - 3**

Students that opt to engage in Curricular Practical Training (CPT) must take 1 credit of CEE 792. This course can be taken a maximum of 3 times during their studies. However, the credits will not be counted towards the degree.

CEE 798 can be taken a maximum of three credits. However, these credits will not be counted towards the degree.

<b>CEE 793 Graduate Internship for PhD Civil &amp; Environmental Engineering</b>	<b>1</b>
<b>[After] CEE - 798: Engineering &amp; Construction Seminar</b>	<b>1 - 3</b>

## **Dissertation - Credits: 18**

<b>CEE 799 Dissertation Research</b>	<b>1 - 9</b>
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## **Degree Requirements**

Complete 42 credits of advisor-approved elective graduate-level coursework.

Students will be required to complete CEE 700. CEE 700 course will be counted towards elective credits. In addition to CEE 700, all students must successfully complete a minimum of 39 credits of approved graduate-level coursework beyond the BS degree.

A Doctoral Advisory Committee composed of at least five members of the UNLV graduate faculty is to be formed for the student. At least three of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the fourth member from a related field. The fifth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is strongly recommended that the Doctoral Advisory Committee collective expertise reflects the dissertation topic. The committee chair must be a tenured or tenure-track CEEC faculty from the area of expertise chosen for dissertation topic.

In addition to the coursework requirements, a dissertation consisting of at least 18 credits of CEE 799 is required with the outcome being manuscripts written for a specific indexed conference or journal.

At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

At least 50% of the courses within the total coursework must be 700 level.

Students must maintain a minimum grade point average of 3.00. A course, in which a grade of less than C was earned, will not be considered for use toward the degree.

Students must take doctoral qualifying exam including a written component prepared by the student's graduate committee. The graduate committee shall provide the examination to the CEEC Department Graduate Coordinator who will administer the written qualifying exam for the CEEC Department on scheduled dates.

Students who have not passed the qualifying exam by their second attempt will be terminated from the Ph.D. program.

After passing the qualifying exam in one area of specialty, the student moves to other area of specialty by changing the advisor; they must retake the qualifying exam in the new area of specialty chosen by the student.

After passing the qualifying exam, the doctoral student must pass a preliminary exam consisting of the preparation of a written proposal for the dissertation research followed by an oral defense of the proposal. The proposal must be approved by the student's Doctoral Advisory Committee.

## Graduation Requirements

The student must submit all required forms to the Graduate College as well as apply for graduation up to two semesters prior to completing their degree requirements.

The student must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.

After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found [here](#).

## Plan Graduation Requirements

*Refer to your subplan for Graduation Requirements.*

[Subplan 1: Post-Master's](#)

## Advising and Culminating Experience

With these changes, will students in this program need a Grad Advisory Committee (GAC) formed?  Yes  No

If yes, please list the applicable subplans that will need a GAC:

With these changes, will students be assigned a faculty advisory prior to GAC formation?  Yes  No

If yes, please list the applicable subplans that will need an advisor:

Comments:

For Master's program only: With these changes, does this program require a prospectus form?  Yes  No

If yes, please list applicable subplans:

With these changes, will the culminating experience be a course?  Yes  No

If yes, please provide course prefix, number and name:

With these changes, describe the culminating experience (requirements, if applicable-which subplans will need GACs, forms, etc.):

The [Degrees Directory](#) provides current and consistent degree information. Submission of this form indicates acknowledgment and understanding that every department is responsible creating and maintaining accurate and updated program information on the UNLV Degrees Directory.

If new courses are added as placeholders within this proposal, new courses must be created using a Course Create form simultaneously to the process of this proposal.

**Degrees Directory Program Entry:**  Check this box to acknowledge the above statement.

**Changes will be applicable to:**  Current Students  
 New Students  
 Both Current and New Students

**If applicable to current students, changes are:**  Mandatory  Optional

**If mandatory:**  If mandatory, I confirm that all students will be notified in writing of these changes as approved by the graduate college  
 Not Mandatory

**Effective Date:**

## READY TO SUBMIT?

After making all your intended changes, please follow these steps:

1. Finish the launch of your proposal by clicking the decisions icon  located to the right of the form. This will display a new decision/approval field on the top right.
2. Click on "approve", add an optional comment if necessary, and then click on the "Make My Decision" button at the bottom to move the proposal forward to the next step. You will see a notification indicating that the proposal has moved forward. You will not be able to edit after moving the proposal forward.
3. Please note that it is your responsibility as the proposer to see that the proposal is reviewed and receives all necessary approvals. Please be encouraged to reach out to reviewers on each step, if necessary.
4. You can check the status of the proposal by clicking on the workflow status icon  to verify that the proposal has gone to the next step.

The workflow status icon  will also show you the current step of the proposal at any given time, and who are the reviewers at that step.

QUESTIONS? contact [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)

### III. Department Vote Information

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

(The role has been assigned to the corresponding person on this step. If incorrect, please notify [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)).

1. Review the proposal. Discuss and make appropriate revisions.
2. Fill in vote information in the fields below, along with the approval. If Dual or Interdisciplinary: add votes from all departments/colleges involved

3. Then approve/reject by clicking the decisions icon  located to the right of the form. This will display a new decision/approval field on the top right. Click on "approve", add an optional comment if necessary, and then click on the "Make My Decision" button at the bottom to move the proposal forward to the next step. You will see a notification indicating that the proposal has moved forward. You will not be able to edit after moving the proposal forward.

The workflow status icon  will also show you the current step of the proposal at any given time, and who are the reviewers at that step.

If there were any modifications to the proposal, please enter them in the comments box below:

**Comments:** The language in the "Career Possibilities" should be substituted with the following language.

"The Ph.D. in Civil Engineering prepares the students to become university professors, Ph.D. level researchers in public or private research institutions, or advanced design engineers in the area of construction, geotechnical, structural, transportation, or water resource/environmental engineering. In addition, the students with a Ph.D. degree have the strong technical background to start their own engineering and construction business."

**Date faculty voted on proposal:** 12/07/2021

**Result of vote:** 18/0/0

**Manner of vote:** Via Webex meeting

### IV. College Vote Information

Note: This section is to be filled out by the Academic Associate Dean on behalf of the college/school committee.

(The role has been assigned to the corresponding person on this step. If incorrect, please notify [gradcurriculum@unlv.edu](mailto:gradcurriculum@unlv.edu)).

1. Review the proposal. Discuss and make appropriate revisions.
2. Fill in vote information in the fields below, along with the approval. If Dual or Interdisciplinary: add votes from all departments/colleges involved
3. Then approve/reject by clicking the decisions icon  located to the right of the form. This will display a new decision/approval field on the top right. Click on "approve", add an optional comment if necessary, and then click on the "Make My Decision" button at the bottom to move the proposal forward to the next step. You will see a notification indicating that the proposal has moved forward. You will not be able to edit after moving the proposal forward.

The workflow status icon  will also show you the current step of the proposal at any given time, and who are the reviewers at that step.

**Date faculty voted on proposal:** 2/9/2022

**Result of vote:** 4/0/0

**Manner of vote:** online

## V. Graduate College Use Only - Code Request Items

Note: This section is for graduate college use only.

**Academic Organization:**

**Academic Program Code:**

**Academic Plan Code:**

**Plan Description (30 chars):**

**Transcript Description:**

**Subplan Code:**

**Subplan Description:**

**Subplan Type:**  Track  
 Concentration  
 Option/Dual  
 Embedded/Track

**Subplan on Transcript?**  YES  NO

**Effective Date and  
First Term Valid:**

**Length / Avg. Time to  
Degree:**

**CIP code and title:**

**Other Codes Needed:**

**Description /  
implementation field  
(do not edit)**

## Comments for Doctor of Philosophy - Civil and Environmental Engineering

<b>Curriculog</b>	3/2/2022 4:18 pm <a href="#">Reply</a>
Emily Lin has approved this proposal on Graduate College Dean.	
<b>Gregory Moody</b>	3/2/2022 1:31 pm <a href="#">Reply</a>
10-0 in support. WebEx meeting held March 1, 2022	
<b>Curriculog</b>	3/2/2022 1:31 pm <a href="#">Reply</a>
Gregory Moody has approved this proposal on Graduate Programs Committee.	
<b>Curriculog</b>	3/2/2022 1:14 pm <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Graduate Programs Committee.	
<b>Curriculog</b>	2/14/2022 9:04 am <a href="#">Reply</a>
Mohamed Trabia has approved this proposal on School/College Associate Dean/ Dean.	
<b>Melissa Morris</b>	2/9/2022 10:17 am <a href="#">Reply</a>
College committee voted to unanimously approve this proposal.	
<b>Curriculog</b>	2/9/2022 10:17 am <a href="#">Reply</a>
Melissa Morris has approved this proposal on School/College Committee.	
<b>Curriculog</b>	2/3/2022 2:32 pm <a href="#">Reply</a>
CEEC Chair has approved this proposal on Department Chair.	
<b>Curriculog</b>	1/28/2022 8:59 am <a href="#">Reply</a>
CEEC Graduate Coordinator has approved this proposal on Graduate Coordinator.	
<b>Curriculog</b>	1/20/2022 8:12 am <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Technical Review.	
<b>Curriculog</b>	1/5/2022 0:13 am <a href="#">Reply</a>
This proposal has passed its deadline and has been approved.	

**Curriculog**1/4/2022 8:17 am [Reply](#)

EVP Academic Assessment has approved this proposal on Learning Objectives Notification.

**CEEC Graduate Coordinator**1/4/2022 8:04 am [Reply](#)

The following changes must be also made  
1. Student Learning Outcomes  
2. Career Possibilities

**Curriculog**1/4/2022 8:04 am [Reply](#)

CEEC Graduate Coordinator has approved this proposal on Originator.

**Curriculog**1/3/2022 7:30 am [Reply](#)

CEEC Graduate Coordinator has launched this proposal.

**Curriculog**1/3/2022 7:16 am [Reply](#)

CEEC Graduate Coordinator imported from the map 2022-2023 - Working Graduate Catalog into the following proposal fields: I. General Information: Department (s) (if Dual or Interdisciplinary please add all departments);, I. General Information: Degree or Certificate Name; , I. General Information: Degree Type; , I. General Information: Program Type; , II. Program Changes: Proposed Curriculum; , V. Graduate College Use Only - Code Request Items: Description / implementation field (do not edit).