


# Master of Science in Transportation

2 Graduate Program Change 2020-21

## I. General Information

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

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

Degree/ Certificate Name\*

Master of Science in Transportation

Plan Code\*

TRAMS

Degree Type\*

Master of Science

Program Type\*

Master's

## II. Program Changes

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




Are you changing admission requirements?\*

Yes  No

Are you changing course requirements?*	<input type="radio"/> Yes <input checked="" type="radio"/> No
Are you changing degree completion requirements?*	<input type="radio"/> Yes <input checked="" type="radio"/> No
Are you changing the primary instructional mode?*	<input type="radio"/> Yes <input checked="" type="radio"/> No
Are you changing program learning objectives?*	<input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, describe changes to learning objectives:	
Provide a Brief Summary of Proposed Changes	CEE 798 is added as an elective course. The course is optional.
Provide a rationale for each proposed change	CEE 798 course needs to be added because OISS required international students to get enrolled in this course before getting approval for Curricular Practical Training (CPT).

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

Follow these steps to change the program curriculum:

1. Click on  "View Curriculum Schema." Edit existing cores or click 'Add Core' and name your core (please use a comparable degree program in the current graduate catalog as a template). Edit or add any descriptive text (do not add courses until Step 2). Descriptive text is generally used in the following cores: Plan Description, Plan Admission Requirements, Plan Requirements, Plan Graduation Requirements.
2. There are two options for adding courses (see Step 3 to remove courses): "Add Course" and "Import Course." For courses already in the catalog, click on "Import Course" and find the courses needed. For new classes going through a Curriculog Approval Process click on "Add Course"-- a box will open asking you for the Prefix, Course Number and Course Title.
3. Click on  "View Curriculum Schema." Click on the area/header of the program where you would like to add courses. When you click on "Add Courses" it will bring up the list of courses available from Step 2. Select the courses you wish to add. For removing courses click on the  and proceed.

After you have launched proposal, update prospective curriculum here\*

## Plan Description

The Master of Science in Transportation (M.S.T.) degree program is oriented toward the practice of transportation science and engineering, with emphasis on the planning, design, operations, and maintenance of transportation systems. It is intended for applicants with all backgrounds especially those in areas other than engineering, and who either presently work for or aspire to work for transportation agencies or private companies who provide professional services in the transportation field. The program is multi-disciplinary in nature and students must take courses from at least two colleges. Two tracks (thesis and project) are available in M.S.T. degree program. 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 M.S.T. degree in thesis and project tracks is open to those students completing the following requirements: Applications must include all documentation as required by the Graduate College. Applications should be submitted in the Grad Rebel Gateway system Applicants must have earned a Bachelor of Science or Bachelor of Arts degree from a regionally accredited four-year college or university. If applicant's degree is in a field other than engineering, it is desirable for the bachelor's degree to be earned in one of the following areas: urban or regional planning, architecture, business, economics, public administration, quantitative geography, computer science, mathematics, operations research, statistics, political science, physical science, psychology, health sciences, or similar discipline. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant's records and admissions information. Overall undergraduate GPA of at least 2.75 on a 4.00 scale (4.00=A) or equivalent is required for admission or at least 3.00 (4.00=A) for the last two years of undergraduate work. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant's records and admissions information. Prior credit (in semester hours) with grades of B or better must have been earned in the following subjects or their equivalents: • MATH 181 – Calculus I • PHYS 151/151L or 152/152L– General Physics I or II • STA 152 - Statistics The applicant must submit a Statement of Intent (SOI) with no more than two pages, indicating previous experience and the reasons why they wish to pursue the M.S.T. degree, and how the degree will be utilized following graduation. In addition, two letters of recommendation (LOR) must be submitted from individuals familiar with the applicant's knowledge, skills and abilities. It is highly recommended that LOR be written on official letter head. International applicants must meet English proficiency requirements established in the UNLV Graduate Catalog. All applicants are

required to take GRE General Test and submit the scores to the University of Nevada, Las Vegas (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. 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, specific areas, and degree tracks within the described programs are subject to change at any time.

## Plan Requirements

See Subplan Requirements below. Subplan1: Thesis Track Subplan 2: Project Track

## Subplan 1 Requirements: Thesis Track

Total Credits Required: 30

## Course Requirements

### Required Courses – Credits: 3

CEE 700 Research Methods in Civil and Environmental Engineering	3
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### Elective Courses – Credits: 18

Complete 18 credits of advisor-approved elective coursework including a minimum of 3 courses from the following discipline-based list:

CEE 725 Freight Transportation	3
CEE 726 Railroad Operations	3
CEE 735 Earth Dams and Embankments	3
CEE 761 Transportation Demand Analysis	3
CEE 762 Operations Research Applications in Civil Engineering	3
CEE 763 Advanced Traffic Engineering	3

## **(Optional) Graduate Internship Course - Credit: maximum up to 1**

Students engaged in Curricular Practical Training (CPT) must take CEE 798. The course can be taken maximum one time during their study. However, the credit will not be counted towards the degree.

**CEE 798 Graduate Internship for Civil Engineering and Transportation Students**

## **Thesis – Credits: 9**

**CEE 797 Thesis in Civil Engineering**

**3 – 6**

## **Degree Requirements**

A Thesis Advisory Committee composed of at least four members of the UNLV graduate faculty is to be formed for the student. At least two of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the third member can be from a related field. The fourth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is recommended that the Thesis Advisory Committee collective expertise reflects the thesis topic. The committee chair must be a faculty from the area of expertise chosen for thesis topic. In addition to CEE 700, all student must successfully complete a minimum of 18 credit hours of approved graduate courses. In addition to the coursework requirements, 9 credits of research work associated with the master's level thesis (CEE 797) with the outcome being a manuscript 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.

## **Graduation Requirements**

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements. The student must submit and successfully defend his/her thesis 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: Project Track**

Total Credits Required: 30

## **Course Requirements**

### **Elective Courses - Credits: 27**

Complete 27 credits of advisor-approved elective coursework including a minimum of 3 courses from the following discipline-based list:

<b>CEE 725 Freight Transportation</b>	<b>3</b>
<b>CEE 726 Railroad Operations</b>	<b>3</b>
<b>CEE 735 Earth Dams and Embankments</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>

### **(Optional) Graduate Internship Course - Credit: maximum up to 1**

Students engaged in Curricular Practical Training (CPT) must take CEE 798. The course can be taken maximum one time during their study. However, the credit will not be counted towards the degree.

**CEE 798 Graduate Internship for Civil Engineering and Transportation Students**

### **Project - Credits: 3**

**CEE 796 Design Project in Civil Engineering**

**1 – 3**

## Degree Requirements

The student's Advisor should be tenured or a tenure-track faculty member of the CEEC Department. An advisory committee is not required. Students must complete a minimum of 27 credit hours of approved graduate courses, and 3 credits of project work associated with the master's level project (CEE 796) with the outcome being a paper 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 received will not be considered for use toward the degree.

## Graduation Requirements

The student must submit all required forms to the Graduate College and apply for graduation up to two semesters prior to completing his/her degree requirements. The student must successfully complete a project and submit a project report.

## Plan Graduation Requirements

Refer to your subplan for Graduation Requirements. Subplan 1: Thesis Track  
Subplan 2: Project Track

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 the changes included on this form impact the program handbook attach the updated handbook before submitting this form. If you need a Word version of the most recent handbook please email [GradCurriculum@unlv.edu](mailto:GradCurriculum@unlv.edu).

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


Effective Date\*

Fall 2021

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.


### III. 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 2/12/2020

Result of vote 12 Yes out of 17 faculty


Manner of vote Email

### IV. 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)

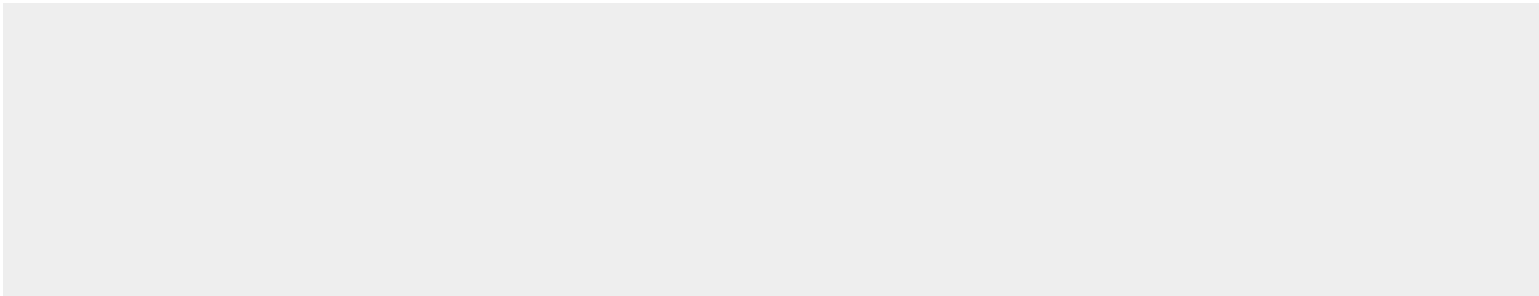
1. Review the proposal. Discuss and make appropriate revisions.
2. Fill in vote information.
3. Then go to the proposal toolbox at the top right side. Click on  and select the corresponding decision for the committee. This will enable the proposal to go to the next person on the workflow.

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	04/01/2020	Result of vote	4/0/0
Manner of vote	Online		

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

Program Alerts (E.g. This program is no longer accepting applications)			
PS Processing Notes			
PS Processing Date		Initials	
Acalog Processing Notes			
Acalog Processing Date		Initials	



## Comments for Master of Science in Transportation

<b>Curriculog</b>	4/8/2020 3:44 pm <a href="#">Reply</a>
Emily Lin has approved this proposal on Graduate College Dean.	
<b>Curriculog</b>	4/8/2020 12:21 pm <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Graduate Programs Committee.	
<b>Gregory Moody</b>	4/7/2020 6:30 pm <a href="#">Reply</a>
11 in favor - WebEx Meeting	
<b>Curriculog</b>	4/7/2020 6:30 pm <a href="#">Reply</a>
Gregory Moody has approved this proposal on Graduate Programs Committee.	
<b>Graduate Curriculum</b>	4/1/2020 6:33 pm <a href="#">Reply</a>
On behalf of Dr. Trabia through email authorization.	
<b>Curriculog</b>	4/1/2020 6:33 pm <a href="#">Reply</a>
Graduate Curriculum has force approved this proposal.	
<b>Melissa Morris</b>	4/1/2020 3:13 pm <a href="#">Reply</a>
The College Curriculum Committee Approves Unanimously.	
<b>Curriculog</b>	4/1/2020 3:13 pm <a href="#">Reply</a>
Melissa Morris has approved this proposal on School/College Committee.	
<b>Curriculog</b>	3/31/2020 2:46 pm <a href="#">Reply</a>
CEEC Chair has approved this proposal on Department Chair.	
<b>Curriculog</b>	3/31/2020 1:52 pm <a href="#">Reply</a>
CEEC Graduate Coordinator has approved this proposal on Graduate Coordinator.	
<b>Curriculog</b>	3/31/2020 12:44 pm <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Technical Review.	

**Curriculog**

3/30/2020 5:24 pm [Reply](#)

CEEC Graduate Coordinator has approved this proposal on Originator.

**Graduate Curriculum**

3/30/2020 1:41 pm [Reply](#)

Sending back to originator by request of originator

**Curriculog**

3/30/2020 1:41 pm [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

**Curriculog**

3/26/2020 7:12 pm [Reply](#)

CEEC Graduate Coordinator has approved this proposal on Originator.

**Curriculog**

3/26/2020 6:14 pm [Reply](#)

CEEC Graduate Coordinator has launched this proposal.

**Curriculog**

3/26/2020 6:12 pm [Reply](#)

CEEC Graduate Coordinator imported from the map 2020-2021 Working Graduate Catalog into the following proposal fields: I. General Information: Department, I. General Information: Degree/ Certificate Name, I. General Information: Plan Code, I. General Information: Degree Type, I. General Information: Program Type, II. Program Changes: After you have launched proposal, update prospective curriculum here, V. Processing Notes (Graduate College/Registrar Use Only): Program Alerts (E.g. This program is no longer accepting applications).