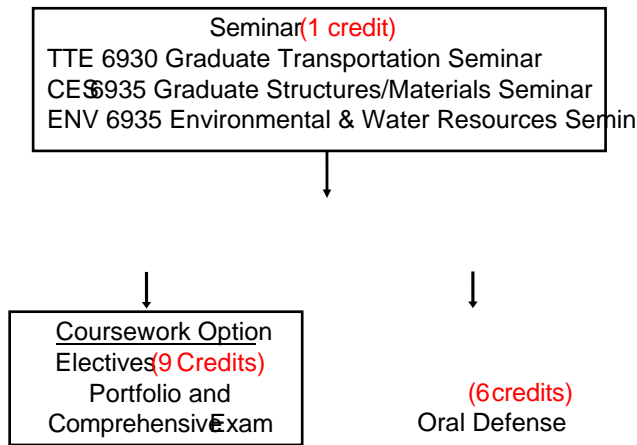


MSCE Course Registration Guide and Program of Study Forms

In the CEE department at USF graduate students are expected to know their program requirements and register themselves for classes using Oa. The staff class search feature will help you to search for open classes (<https://usfweb.usf.edu/DSS/StaffScheduleSearch>). When using this tool, be sure to enter the correct Term, Department Level (e.g., graduate/undergraduate), and Status (open). The following graphic shows the structure of the MSCE program for Thesis and Non-Thesis (coursework only) students:



Core Courses (5 credits) - These courses are required for every MSCE student who entered the program Fall 2019 or later. Note that Intro to Data Science is normally taught both fall and spring and Professional Practice is normally taught only in the spring.

- { CGN 6311 Introduction to Data Science for Civil Engineers (3 credits)
- { CGN 6162 Professional Practice of Civil Engineering (2 credits)

Seminar (1 credit) - A seminar course is required for every MSCE student who entered the program Fall 2024 or later. Students in the transportation concentration who entered the program Fall 2021 are also required to take Seminar. Select one from the following:

- { TTE 6930 Graduate Transportation Seminar (1 credit)
- { CE 6935 Graduate Structures/Materials Seminar (1 credit)
- { ENV 6935 Environmental & Water Resources Seminar (1 credit)

Concentration Requirements (15 credits) Concentrations are offered in Structural, Geotechnical, Transportation Materials, Engineering for International Development and Water Resources Engineering. Requirements for each concentration are shown on the next page. Each concentration allows for some credits of coursework in the area of concentration or closely related areas that you are free to select on your own. Note that it is possible to select two concentrations (e.g., Water Resources Engineering for International Development) but t88 16.86 but t88 16.86 but t88 4r bl2l(nnin q 0 0 61g8 100.86 Td ()Tj ET C

Electives (3 credits Thesis Option/0 credits Nonthesis)- Electives are grad level classes that you are free to select based on your interests and career goals.

Geotechnical Engineering

- { CEE 5115 Foundation Engineering
- { CEE 5118 Applied Finite Elements

9 additional credit hours of coursework in Geotechnical Engineering or closely related areas.

Materials Engineering

At least 2 courses from the following list:

- { CGN 6933 Special Topics in CEE: Advanced Construction Materials
- { CGN 6720 Electrochemical Diagnostic Techniques
- { EMA 5326 Corrosion Control
- { EMA 6510 Characterization of Materials

9 additional credit hours of coursework in Materials Engineering and Science or closely related areas.

Structural Engineering

- { CEE 5144 Advanced Structural Analysis

At least 1 course from the following list of design courses:

- { CEE 706 Advanced Concrete Design
- { CEE 835 Design of Masonry Structures
- { CEE 715 Prestressed Concrete

At least 1 course from the following list of analysis courses:

- { CEE 5118 Applied Finite Elements
- { CEE 230 Advanced Structural Mechanics
- { CEE 209 Structural Dynamics

6 additional credit hours of coursework in Structures Engineering or closely related areas.

Transportation

- { TTE 5205 Traffic Systems Engineering
- { TTE 6507 Traffic Demand Modeling or TTE 6507 Statistical and Econometric Methods I

6 additional credit hours of coursework in Transportation Engineering or closely related areas.

Water Resources

3 courses (9 credit hours) from the following list:

- { CWR 6305 Urban Hydrology
- { CWR 6535 Hydrologic Models
- { CWR 6105 Vadose Zone Hydrology
- { CWR 6625 Ecological Engineering
- { CWR 6820 Coastal Waves and Structures
- { ENV 6564 Environmental and Water Resources Engineering Design
- { CGN 6933 Special Topics CEE: Advanced Numerical Methods
- { CGN 6933 Special Topics CEE: Water Resources Sustainability
- { CGN 6933 Special Topics CEE: Environmental Fluid Mechanics
- { CGN 6933 Special Topics CEE: Water Resources Engineering

6 additional credit hours in Water Resources Engineering or closely related areas.

MSC Program of Study Form- Non-thesis option

Name:	
UID:	
MSCE Admission Term:	
Email:	
Address:	
Phone:	

Area of concentration:	<input type="checkbox"/> ED <input type="checkbox"/> Geotechnical <input type="checkbox"/> Materials	<input type="checkbox"/> Structural <input type="checkbox"/> Transportation <input type="checkbox"/> Water Resources	<input type="checkbox"/> No concentration
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MSCE Program of Study Form - Thesis Option

Name:					
UID:					
MSCE Admission Term:					
Email:					
Address:					
Phone:					
Major Professor(s):					
Area of Concentration	EFD Geotechnical Materials	Structural Transportation Water Resources	No concentration		
Course Title	Course Number	Credits	Semester Taken	Outside CEE?	Grade
Core Coursework	5 credits				
Intro to Data Science	for CE				

CE