

<b>USC SCHOOL</b>	Viterbi School of Engineering
<b>ACADEMIC DEPARTMENT</b>	Astani Department of Civil and Environmental Engineering
<b>GRADUATE PROGRAM</b>	MS Civil Engineering (Construction Engineering)
<b>POST CODE</b>	607
<b>TERM EFFECTIVE DATE</b>	Fall 2022

**PROGRAM DESCRIPTION**

A brief description of the graduate program.

The Master of Science in Civil Engineering is awarded in strict conformity with the general requirements of the USC Viterbi School of Engineering. A student may receive the Master of Science in Civil Engineering with a special option by specializing in one of the following courses of study: construction engineering; structural engineering; and transportation engineering. Students can choose the option of completing a thesis must include in their program 4 units of CE 594a and CE 594b. Total units for the degree is 28.

The MSCE Construction Engineering degree offers the student a myriad of opportunities and exposure in the construction industry. Graduates enter into areas of construction management, engineering development and planning, consulting, and the pursuit of higher degree. Graduates have a variety of employment opportunities, including working for general contractors, real estate developers, sub contractors, construction management firms and architectural engineering firms.

**COMMON BACHELOR DEGREE PROGRAM PATHWAYS**

A list of common bachelor's degrees that undergraduate students pursue in advance of pursuing a progressive degree option with this graduate program. Some programs are restricted to certain majors while others are open to all students.

BS Civil Engineering	
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**PREPARATORY UNDERGRADUATE COURSES**

A list of courses at the undergraduate level that prepare students for the graduate program. Required coursework is listed first, followed by recommended courses. If not applicable, this section will be blank.

Dept. Prefix - Course #	Course Title	Required or Recommended	Units
CE 215	Statics and Dynamics	Required	4
CE 309	Fluid Mechanics	Required	4
CE 358	Theory of Structures I	Required	4
CE 456	Structural Systems Design I	Required	4
CE 460	Construction Engineering	Required	4

**UNDERGRADUATE COURSES USED TO REDUCE GRADUATE LEVEL UNITS**

A list of undergraduate level courses that may be used to reduce the number of graduate level units required for the graduate program. If there are none, that is specified instead.

Dept. Prefix - Course #	Course Title	Units
	NONE	

**CORE GRADUATE PROGRAM REQUIREMENTS (# units required)**

A list of all required graduate courses for the graduate program. None of these courses may be used toward satisfying undergraduate degree requirements.

*If special exceptions for any of these courses are made by the academic department, the course # is marked with an asterisk (\*) and the exception is explained in the "Department Notes" section at the end of this course plan template.*

Dept. Prefix - Course #	Course Title	Units
CE 501	Construction Practices	4
CE 502	Construction Accounting, Finance and Strategy	4
CE 569	Project Controls	4

**PRE-APPROVED ELECTIVE COURSEWORK**

Elective coursework is approved at the discretion of the academic department. Note the following details about the total number and units required of elective coursework.

16	<b>TOTAL ELECTIVE COURSES REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE</b>
7	<b>TOTAL ELECTIVE UNITS REQUIRED FOR THE PROGRESSIVE GRADUATE DEGREE</b>

**TOTAL UNIT COUNTS AND REQUIRED GRADUATE UNITS**

28	<b>TOTAL UNITS REQUIRED FOR THE TRADITIONAL GRADUATE DEGREE</b>
9	<b>TOTAL GRADUATE UNITS THAT MAY BE WAIVED (IF ANY)</b>
19	<b>MINIMUM NUMBER OF GRADUATE UNITS THAT MUST BE AT THE 500 LEVEL OR ABOVE</b>

**NOTES FROM THE DEPARTMENT**

This section highlights any unique considerations, exceptions, or requirements for the graduate program. If a program has specific restrictions (courses, majors, etc.), they are detailed below.

N/A
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Kelly Goulis	12/6/2022
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**Name of Authorizing Master's Program Dean****Date Approved**

Senior Associate Dean, Viterbi School of Engineering
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**Authorizing Dean's Title**