USC Viterbi School of Engineering

Fall 2025 Course Recommendations for Astani MS Students

General Reminders

- A minimum of a 3.0 GPA must be maintained to be in good academic standing and to be eligible to graduate
- Most courses are 2-unit or 4-units. Occasionally a 3-unit course exists as an elective option. Taking a 3-unit class can result in a student needing to take more than the minimum number of units needed to graduate.
- At least two-thirds of your coursework must be at the 500-level or higher.
    - For Progressive Degree Program (PDP) students, all coursework must be 500-level or higher. No 400-level courses will count toward your degree.

This is not a comprehensive list of requirements.
Review the USC Catalogue for Official Degree Requirements

Students working full-time should only enroll in 4 units. Please reach out to your advisor on the Advise USC platform if you have any additional questions.

Please direct advisor questions to on the Advise USC platform. Due to the high number of requests at this time, it may take up to 3 business days to receive a response.

MSCE – General
28 Unit Minimum

The MSCE – General curriculum requires a minimum of 3 units from each of the four specialty areas: Environmental Engineering & Water Resources, Construction & Transportation, Structural Engineering, and Geotechnical Engineering. Please work towards completing the minimum 3 units from each category before taking more units in the same category.

Environmental Engineering and Water Resources	Construction and Transportation
• ENE 505: Energy and the Environment (4 Units) • CE 523: Physiochemical Processes in Environmental Engineering (4 Units)	• CE 471: Principles of Transportation Engineering (4 Units) • CE 501: Architecture, Engineering and Construction Practices (4 Units) • CE 569: Project Controls (4 units) • CE 573: Advanced Technologies in AEC Practices (4 Units)
Structural Engineering	**Geotechnical Engineering**
• CE 512: Seismic Design of Structures (4 Units) • CE 537: Advanced Reinforced Concrete (4 Units) • CE 539: Advanced Steel Structures (4 Units)	• CE 482: Subsurface Foundation Design (4 Units)