USC Viterbi School of Engineering

Spring 2026 Course Recommendations

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.

MS Sustainable Engineering
28 Unit Minimum

Please enroll in the required courses unless you have completed them in a prior semester. If required courses have been completed, please enroll in the appropriate number of electives to reach the 8 units required to maintain full-time enrollment.

Choose at least two classes (at least 7 units total) in a selected Emphasis A, B, or C. Choose remaining credits from any emphasis or non-emphasis category

Energy and Power Systems Emphasis

- AME 513B: Fundamentals and Applications of Combustion (4 units)
- AME 577: Survey of Energy and Power for a Sustainable Future (4 units)
- EE 443: Introduction to Power Systems (4 units)
- EE 521: Power Systems Analysis and Design (4 units)
- EE 526: Renewable Energy in Power Systems (4 units)

Buildings and Infrastructure Emphasis

- ARCH 519: Sustainability in the Environment: Infrastructures, Urban Landscapes, and Buildings (3 units)

Fate of Pollutions Emphasis

- ENE 428: Air Pollution Fundamentals (4 units)
- ENE 512: Environmental Fluid Mechanics (4 units)
- ENE 535: Applied Air Quality Management (4 units)

Technical Electives

- CHE 455: Sustainable Materials (4 units)

Policy, Economics, Governance, and Innovation Electives

- ENE 502: Environmental and Regulatory Compliance (4 units)
- ISE 501: Innovative Conceptual Design for New Product Development (4 units)
- ISE 585: Strategic Management of Technology and Innovation (4 units)

Methods Focused Electives

- CE 532: Data Analytics in Civil Engineering (2 units)
- ISE 535: Data Mining (4 units)
- ISE 562: Decision Analysis (4 units)
- ISE 568: Machine Learning (4 units)
- MASC 515: Basics of Machine Learning for Materials (4 units)
- MASC 520: Mathematical Methods for Deep Learning (4 units)