

Spring 2026 DEN 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.

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)

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)

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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)