

ENGINEERING: SUSTAINABLE SYSTEMS ENGINEERING, MENG

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirementstext>) and policies (<https://guide.wisc.edu/graduate/#policiestext>), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
No	No	Yes	No	No

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW–Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirement Detail

Minimum Credit Requirement

Minimum 30 credits

Residence

Credit

Requirement

Minimum 16 credits
Residence Credit Requirement
Minimum 15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework Requirement (50%) Requirement policy: <https://policy.wisc.edu/library/UW-1244> (<https://policy.wisc.edu/library/UW-1244/>).

Overall 3.00 GPA required.
Graduate GPA Requirement Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <https://policy.wisc.edu/library/UW-1203> (<https://policy.wisc.edu/library/UW-1203/>).

Other Grade Requirements Must retake any courses for which a grade below C is recorded.

Assessments and Examinations No formal examination required.

Language Requirements No language requirements.

REQUIRED COURSES

Code	Title	Credits
Capstone Course		
Required after completing 21 credits		3
E P D 669	Sustainable Systems Engineering Capstone	
Science and Sustainability Courses		
Complete at least 9 credits from these courses		9
BSE/ ENVIR ST 367	Renewable Energy Systems (can count as Science and Sustainability OR Engineering and Design)	
CIV ENGR 723	Energy Principles of Environmental Engineering	
CIV ENGR 729	Environmental Sustainability Tools	
E P D 639	Plastics Recycling and Sustainability	
E P D 660	Core Competencies of Sustainability (recommended for all SSE students)	
GEOSCI/ ENVIR ST 411	Energy Resources	
Engineering and Design Courses		
Complete at least 9 credits		9
CIV ENGR/ G L E 535	Wind Energy Balance-of-Plant Design	
E P D 690	Special Topics in Engineering Professional Development (multiple course topics available - refer to advisor for approved courses)	
E P D 699	Independent Study	
E P D 730	Sustainable Facilities	
E P D 731	Energy Efficiency in Buildings	
Elective Courses		
Complete at least 9 credits from the courses below or the two lists above		9
CIV ENGR 525	Case Studies Exploring Infrastructure Sustainability and Climate Change	
CIV ENGR 629	Special Topics in Environmental Engineering (specific course topics - refer to advisor for approved courses)	
E P 418	Sustainable Energy Challenges and Solutions	
E P D 605	Fundamentals of Technical Project Management	

or E P D/ GEN BUS/ OTM 784	Project Management Essentials
E P D 606	Leading and Managing Technical Teams
or E P D/ GEN BUS/ M H R 783	Leading Teams
E P D 611	Engineering Economics and Management
E P D 612	Technical Project Management
E P D 616	Engineering Law
E P D 647	Trends in Electrification Seminar
E P D 701	Writing for Professionals
E P D 702	Professional Presentations
E P D 704	Organizational Communication and Problem Solving
E P D 706	Change Management
E P D 708	Creating Breakthrough Innovations
E P D 712	Ethics for Professionals
E P D/ACCT I S/ GEN BUS 781	Financial and Business Acumen
E P D/GEN BUS/ MARKETNG 782	Marketing for Non-Marketing Professionals
E P D/GEN BUS/ M H R 785	Effective Negotiation Strategies

Total Credits**30****Other Policy**

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval.

Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.