

ENGINEERING: SUSTAINABLE SYSTEMS ENGINEERING, MENG

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), 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 Residence Credit Requirement

Minimum Graduate Coursework Requirement 15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (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		3
E P D 669	Sustainable Systems Engineering Capstone	
Science and Sustainability Courses (Minimum 9 credits from these courses)		9
BSE/ ENVIR ST 367	Renewable Energy Systems	
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	
GEOSCI/ ENVIR ST 411	Energy Resources	
Engineering and Design Courses (Minimum 9 credits from these courses)		9
CIV ENGR/ G L E 535	Wind Energy Balance-of-Plant Design	
E C E 355	Electromechanical Energy Conversion	
E P D 690	Special Topics in Engineering Professional Development (Distributed Renewable Systems Design; Sustainable Microgrids)	
E P D 699	Independent Study	
E P D 730	Sustainable Facilities	
E P D 731	Energy Efficiency in Buildings	
Elective Courses (9 credits from the courses below or the two lists above)		9
CIV ENGR 629	Special Topics in Environmental Engineering	
E P 418	Sustainable Energy Challenges and Solutions	
E P D 611	Engineering Economics and Management	
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 612	Technical Project Management
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

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.