ENGINEERING: SUSTAINABLE SYSTEMS ENGINEERING, M.ENG.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>E P D 669</td>
<td>Sustainable Systems Engineering Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Science and Sustainability Courses (Minimum 9 credits from these courses)

- BSE/ENVIR ST 367 Renewable Energy Systems 3
- CIV ENGR 723 Energy Principles of Environmental Engineering 3
- CIV ENGR 729 Environmental Sustainability Tools 3
- E P D 639 Plastics Recycling and Sustainability 3
- E P D 660 Core Competencies of Sustainability 3
- GEOSCI/ENVIR ST 411 Energy Resources 3

Engineering and Design Courses (Minimum 12 credits from these courses)

- CIV ENGR/GLE 535 Wind Energy Balance-of-Plant Design 3
- E C E 355 Electromechanical Energy Conversion 3
- E P D 690 Special Topics in Engineering Professional Development (Distributed Renewable Systems Design; Sustainable Microgrids) 3

- E P D 699 Independent Study 1-3
- E P D 730 Sustainable Facilities 3
- E P D 731 Energy Efficiency in Buildings 3

Elective Courses (Maximum 9 credits from these courses)

- CIV ENGR 629 Special Topics in Environmental Engineering 1-3
- E P 418 Sustainable Energy Challenges and Solutions 1
- E P D 611 Engineering Economics and Management 3
- E P D 612 Technical Project Management 3
- E P D 701 Writing for Professionals 1
- E P D 702 Professional Presentations 1
- E P D 704 Organizational Communication and Problem Solving 1
- E P D 706 Change Management 1
- E P D 708 Creating Breakthrough Innovations 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>E P D 712</td>
<td>Ethics for Professionals</td>
<td>1</td>
</tr>
<tr>
<td>E P D/ACCT I S/</td>
<td>Financial and Business Acumen</td>
<td>1</td>
</tr>
<tr>
<td>GEN BUS 781</td>
<td></td>
<td></td>
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<tr>
<td>E P D/GEN BUS/</td>
<td>Marketing for Non-Marketing</td>
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<tr>
<td>MARKETING 782</td>
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<tr>
<td>E P D/GEN BUS/</td>
<td>Leading Teams</td>
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<tr>
<td>M H R 783</td>
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<tr>
<td>E P D/GEN BUS/</td>
<td>Project Management Essentials</td>
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<tr>
<td>OTM 784</td>
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<tr>
<td>E P D/GEN BUS/</td>
<td>Effective Negotiation Strategies</td>
<td>1</td>
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<tr>
<td>M H R 785</td>
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</tbody>
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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.