This is a named option within the Engineering M.Eng (https://guide.wisc.edu/graduate/engineering-college-wide/engineering-meng/).

The named option Engine Systems (https://epd.wisc.edu/online-degrees/master-of-engineering-engine-systems/) is the only online engineering master's degree focused on internal combustion engine development. This interactive, web-based program provides internal combustion engine engineers with a broad base of skills in:

- Combustion
- Controls and vibrations
- Engine design and performance
- Thermodynamics, fluid mechanics, and heat transfer

The program is tailored for working engineers, offering:

- An online platform accessible to you from anywhere in the world
- Courses and projects that apply immediately to real-world work

More information about this graduate degree can be found here (https://epd.wisc.edu/online-degrees/master-of-engineering-engine-systems/).

### ADMISSIONS

Please consult the table below for key information about this degree program's admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program's website. Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements (https://grad.wisc.edu/apply/requirements/) of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/apply/).

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>July 15</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>This program does not admit in the spring.</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>This program does not admit in the summer.</td>
</tr>
<tr>
<td>GRE (Graduate Record Examinations)</td>
<td>Not required but may be considered if available.*</td>
</tr>
<tr>
<td>English Proficiency Test</td>
<td>Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (<a href="https://grad.wisc.edu/apply/requirements/#english-proficiency">https://grad.wisc.edu/apply/requirements/#english-proficiency</a>).</td>
</tr>
</tbody>
</table>

Other Test(s) (e.g., GMAT, MCAT) n/a

Letters of Recommendation Required 3

* Applicants are recommended to submit GRE scores if they have already taken the exam.

A small cohort of students is selected each fall term. This 30-credit program can be completed in as little as 2.5 years.

Admission requirements for engineers interested in applying are:

- A B.S. degree in mechanical engineering or similar degree from an ABET-accredited program. Please contact Program Director to discuss your specific background.
- Students without the required mechanical engineering background may still be eligible for the program upon the successful completion of leveling courses offered during the summer semester.
- A minimum undergraduate grade point average (GPA) of 3.00 on the equivalent of the last 60 semester hours (approximately two years of work).

### FUNDING

#### GRADUATE SCHOOL RESOURCES

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

#### PROGRAM RESOURCES

Students in the Engineering M.Eng. programs are not permitted to accept teaching assistantships, project assistantships, research assistantships or other appointments that would result in a tuition waiver. Students in these programs cannot enroll in other graduate programs nor take courses outside the prescribed curriculum. If you intend to combine study in this program with other academic programs at UW–Madison, please contact Engineering Professional Development’s Students Services Department (studentservices@epd.wisc.edu).

#### FEDERAL LOANS

Students who are U.S. citizens or permanent residents are eligible to receive some level of funding through the federal direct loan program. These loans are available to qualified graduate students who are taking at least four credits during the Fall and Spring semesters, and two credits during Summer. Private loans are also available. Learn more about financial aid at financialaid.wisc.edu (https://financialaid.wisc.edu/).

#### EMPLOYER SUPPORT

Many students receive some financial support from their employers. Often, students find it beneficial to sit down with their employer and discuss how this program applies to their current and future responsibilities. Other key points to discuss include how participation will not interrupt your work schedule.
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 are able to complete a program with minimal disruptions to careers and other commitments.

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

Requirements Detail

Minimum Credit Requirement 30 credits
Minimum Residence Credit Requirement 16 credits
Minimum Graduate Coursework Requirement All courses in this fixed curriculum program are graduate-level courses, identified with the Graduate Level Coursework attribute in the university's Course Guide (https://registrar.wisc.edu/course-guide/), and are offered exclusively to Graduate students in the M.Eng. degree program.

Overall Graduate GPA Requirement 3.00 GPA required.
Other Grade Requirements Must retake any courses for which a grade below C is recorded.
Assessments and Examinations No formal examination required.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>E P D 622</td>
<td>Engine Design I</td>
<td>2</td>
</tr>
<tr>
<td>E P D 623</td>
<td>Engine Design II</td>
<td>4</td>
</tr>
<tr>
<td>E P D 624</td>
<td>Engine Performance and Combustion</td>
<td>4</td>
</tr>
<tr>
<td>E P D 625</td>
<td>Engine Gas Dynamics</td>
<td>2</td>
</tr>
<tr>
<td>E P D 627</td>
<td>Perspectives on Engine Modeling</td>
<td>2</td>
</tr>
<tr>
<td>E P D 628</td>
<td>Analysis of Trends in Engines</td>
<td>2</td>
</tr>
<tr>
<td>E P D 629</td>
<td>Powertrain Systems and Controls</td>
<td>3</td>
</tr>
<tr>
<td>E P D 633</td>
<td>Engine Boosting</td>
<td>2</td>
</tr>
<tr>
<td>E P D 642</td>
<td>Thermodynamics of Engine Systems</td>
<td>3</td>
</tr>
<tr>
<td>E P D 720</td>
<td>Engine Noise and Vibration</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives: 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>E P D 612</td>
<td>Technical Project Management</td>
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</tr>
<tr>
<td>E P D 630</td>
<td>Engine Design III</td>
<td></td>
</tr>
<tr>
<td>E P D 690</td>
<td>Special Topics in Engineering Professional Development</td>
<td></td>
</tr>
<tr>
<td>E P D 701</td>
<td>Writing for Professionals</td>
<td></td>
</tr>
<tr>
<td>E P D 702</td>
<td>Professional Presentations</td>
<td></td>
</tr>
<tr>
<td>E P D 704</td>
<td>Organizational Communication and Problem Solving</td>
<td></td>
</tr>
<tr>
<td>E P D 706</td>
<td>Change Management</td>
<td></td>
</tr>
<tr>
<td>E P D 708</td>
<td>Creating Breakthrough Innovations</td>
<td></td>
</tr>
<tr>
<td>E P D 712</td>
<td>Ethics for Professionals</td>
<td></td>
</tr>
<tr>
<td>E P D 713</td>
<td>Key Legal Concepts for Professionals</td>
<td></td>
</tr>
<tr>
<td>E P D/D/ACCT I S/GEN BUS 781</td>
<td>Financial and Business Acumen</td>
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</tr>
<tr>
<td>E P D/D/GEN BUS/MARKETING 782</td>
<td>Marketing for Non-Marketing Professionals</td>
<td></td>
</tr>
<tr>
<td>E P D/D/GEN BUS/MHR 783</td>
<td>Leading Teams</td>
<td></td>
</tr>
<tr>
<td>E P D/D/GEN BUS/OM 784</td>
<td>Project Management Essentials</td>
<td></td>
</tr>
<tr>
<td>E P D/D/GEN BUS/MHR 785</td>
<td>Effective Negotiation Strategies</td>
<td></td>
</tr>
</tbody>
</table>

Other courses with program director approval.

Total Credits 30

Summer Residency:

A brief (2-3 day) summer residency at University of Wisconsin–Madison is required annually.

POLICIES

GRADUATE SCHOOL POLICIES

The Graduate School's Academic Policies and Procedures (https://grad.wisc.edu/acadpolicy/) provide essential information regarding
general university policies. Program authority to set degree policies beyond the minimum required by the Graduate School lies with the degree program faculty. Policies set by the academic degree program can be found below.

**NAMED OPTION-SPECIFIC POLICIES**

**PRIOR COURSEWORK**

**Graduate Work from Other Institutions**

With program approval, students are allowed to count graduate coursework from other institutions toward the minimum graduate degree credit requirement and the minimum graduate coursework (50%) requirement. No credits from other institutions can be counted toward the minimum graduate residence credit requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

**UW–Madison Undergraduate**

Up to 7 credits numbered 300 or above can be counted toward the minimum graduate degree credit requirement. Up to 7 credits of courses numbered 600 or above can be counted toward the minimum graduate coursework (50%) requirement. No credits can be counted toward the minimum graduate residence credit requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

**UW–Madison University Special**

With program approval, students are allowed to count up to 9 credits of coursework numbered 300 or above taken as a UW–Madison Special student toward the minimum graduate residence credit requirement, and the minimum graduate degree credit requirement, and up to 15 credits of courses numbered 700 or above taken as a UW–Madison Special student toward the minimum graduate coursework (50%) requirement. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

**PROBATION**

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

1. Good standing (progressing according to standards; any funding guarantee remains in place).
2. Probation (not progressing according to standards but permitted to enroll; loss of funding guarantee; specific plan with dates and deadlines in place in regard to removal of probationary status).
3. Unsatisfactory progress (not progressing according to standards; not permitted to enroll, dismissal, leave of absence or change of advisor or program).

**ADVISOR / COMMITTEE**

All students have both a plan advisor and academic advisor (typically the program director or academic director for each program); programs without a fixed curriculum are required to meet with their advisor to outline an approved plan of study by the end of their first academic term.

**CREDITS PER TERM ALLOWED**

15 credits

**TIME CONSTRAINTS**

Master’s degree students who have been absent for five or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

**GRIEVANCES AND APPEALS**

These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (https://doso.students.wisc.edu/bias-or-hate-reporting/)
- Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/policies/gapp/#grievance-procedure)
- Hostile and Intimidating Behavior Policies and Procedures (https://hr.wisc.edu/hib/)
  - Office of the Provost for Faculty and Staff Affairs (https://facstaff.provost.wisc.edu/)
  - Dean of Students Office (https://doso.students.wisc.edu/) (for all students to seek grievance assistance and support)
- Employee Assistance (http://www.eao.wisc.edu/) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (https://employeedisabilities.wisc.edu/) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (https://grad.wisc.edu/) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (https://compliance.wisc.edu/) (for class harassment and discrimination, including sexual harassment and sexual violence)
- Office of Student Conduct and Community Standards (https://conduct.students.wisc.edu/) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (http://www.ombuds.wisc.edu/) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (https://compliance.wisc.edu/titleix/) (for concerns about discrimination)

Students should contact the department chair or program director with questions about grievances.

**OTHER**

Students enrolled in these programs are not permitted to accept teaching assistantships, project assistantships, research assistantships or other appointments that would result in a tuition waiver. Students in these programs cannot enroll in other graduate programs nor take courses outside the prescribed curriculum. If you intend to combine study in this program with other academic programs at UW-Madison, please contact EPD Student Services (studentsservices@epd.wisc.edu).
PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES
Take advantage of the Graduate School’s professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.