MECHANICAL ENGINEERING: AUTOMOTIVE ENGINEERING, M.S.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/policiesandrequirements/text), 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>Yes</td>
<td>No</td>
<td>No</td>
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<td>Yes</td>
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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 18 credits

Minimum Graduate Coursework Requirement Half of degree coursework (15 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (https://registrar.wisc.edu/course-guide/).

Overall Graduate GPA Requirement 3.00 GPA required.

Other Grade Requirements Students must earn a C or above in all formal coursework.

Students may not have any more than two incompletes on their record at any one time.

Assessments and Examinations None.

Language No language requirements.

REQUIRED COURSES

A minimum of 24 formal course credits are required (minimum of 15 credits in Mechanical Engineering taken at UW-Madison), at least 3 of these credits must be numbered 700 or higher.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>M E 903</td>
<td>Graduate Seminar (Two semesters are required and must be taken the first two semesters.)</td>
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A minimum of 12 credits (4 courses) must be taken from the courses listed:

- M E 461 Thermal Systems Modeling
- M E 466 Air Pollution Effects, Measurements and Control
- M E 469 Internal Combustion Engines
- M E 561 Intermediate Thermodynamics
- M E 563 Intermediate Fluid Dynamics
- M E 564 Heat Transfer
- M E 569 Applied Combustion
- M E 572 Intermediate Gas Dynamics
- M E 573 Computational Fluid Dynamics
- M E 574 Advanced Heat Transfer I-Conduction
- M E 576 Advanced Experimental Instrumentation
- M E 774 Chem Kinetics of Combust Systems
- M E/CIV ENGR/E M A 775 Turbulent Heat and Momentum Transfer

During the summer term, students are required to enroll in the following 6 credits:

- M E 669 Engine Experiments 3
- M E 673 Internal Combustion Engine Simulations 3

Advisor Approval of Study Plan

The faculty advisor must always approve the courses a student takes in the MS program. Students should schedule an appointment with their advisor when selecting their courses. During the final semester, the faculty advisor will review the courses taken again and if approved, sign the warrant request form.