

REQUIREMENTS FOR THE MASTER OF SCIENCE
COLLEGE OF ENGINEERING
 THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education: **Summer 2018 through Spring 2019**

GENERAL REQUIREMENTS	
Minimum Total Hours (Non-Thesis)	36
Minimum Total Hours (Thesis)	30

Mechanical Engineering
M675
Master of Science



REQUIRED COURSES														
<p>Required Courses (Thesis 30 hours; Non-Thesis 36 hours):</p> <p><u>Mathematics/Advanced Engineering Analysis:</u> Graduate-level coursework in mathematics or advanced engineering analysis.</p> <p><u>Aerospace and Mechanical Engineering:</u> AME courses at the 5000 level or higher.</p> <p style="padding-left: 20px;">For thesis students, no more than 3 hours in Special Projects, Guided Individual Studies, or other non-competitively graded enrollments.</p> <p style="padding-left: 20px;">For non-thesis students, AME hours may include up to 3 hours Special Projects and up to 3 hours Guided Independent Studies. (Students who elect a 2-hour laboratory course may include 1 additional hour of either of these individual instruction enrollments.)</p> <p><u>Electives:</u> Approved graduate-level courses chosen from other fields of engineering, the physical sciences, and mathematics; or AME courses, including G4000-level courses not required for the B.S. degree in the major field.</p> <p style="padding-left: 20px;">Thesis students who elect a 2-hour laboratory course may include 1 additional hour of Special Projects or Guided Individual Studies in their program.</p> <p style="padding-left: 20px;">For non-thesis students, the 12 hours may include up to 3 hours of additional enrollment in non-competitively graded courses, and up to 6 hours of G4000-level AME courses not required for the B.S. degree in the major field.</p> <p>AME 5980 Research for Master's Thesis (Thesis students only)</p>	<p>3</p> <p>12</p> <p>18-21</p> <p>9</p> <p>12-15</p> <p>6</p>	<p>The master's degree requires the equivalent of <i>at least</i> two semesters of satisfactory graduate work and additional work as may be prescribed for the degree.</p> <p>All coursework applied to the master's degree must carry graduate credit.</p> <p>Master's degree programs which require a thesis consist of <i>at least</i> 30 credit hours. All non-thesis master's degree programs require <i>at least</i> 32 credit hours.</p> <p>Credit transferred from other institutions must meet specific criteria and is subject to certain limitations.</p> <p>Courses completed through correspondence study may <i>not</i> be applied to the master's degree.</p> <p>To qualify for a graduate degree, students must achieve an overall grade point average of 3.0 or higher in the degree program coursework and in all resident graduate coursework attempted. A student must also have at least a 3.0 in all coursework (including undergraduate coursework if any).</p> <p>The requirements listed on this degree check sheet apply to the following concentrations in Mechanical Engineering.</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Combustion</td> <td style="text-align: right;">M675/Q126</td> </tr> <tr> <td style="padding-left: 20px;">Controls</td> <td style="text-align: right;">M675/Q151</td> </tr> <tr> <td style="padding-left: 20px;">Fluid Mechanics</td> <td style="text-align: right;">M675/Q256</td> </tr> <tr> <td style="padding-left: 20px;">Heat Transfer</td> <td style="text-align: right;">M675/Q321</td> </tr> <tr> <td style="padding-left: 20px;">Mechanical Engineering General</td> <td style="text-align: right;">M675/Q448</td> </tr> <tr> <td style="padding-left: 20px;">Solid Mechanics</td> <td style="text-align: right;">M675/Q618</td> </tr> </table>	Combustion	M675/Q126	Controls	M675/Q151	Fluid Mechanics	M675/Q256	Heat Transfer	M675/Q321	Mechanical Engineering General	M675/Q448	Solid Mechanics	M675/Q618
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A student who has done satisfactory graduate work and has earned a 3.0 grade point average may file for master's candidacy.