# REQUIREMENTS FOR THE MASTER OF SCIENCE

**MEWBOURNE COLLEGE OF EARTH AND ENERGY**

**THE UNIVERSITY OF OKLAHOMA**

## GENERAL REQUIREMENTS

| Minimum Total Hours (Thesis) | 30 |
| Minimum Total Hours (Non-Thesis) | 36 |

## REQUIRED COURSES

**REQUIRED COURSES (9 hours):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>P E 5353, Advanced Drilling</td>
<td>3</td>
</tr>
<tr>
<td>P E 6573, Advanced Oil Reservoir Engineering</td>
<td>3</td>
</tr>
<tr>
<td>P E 5523, Advanced Production Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**CORE COURSES (3 hours):**

- **Applied Mathematics** (one course from the following or other approved applied math course):
  - MATH 4163G, Introduction to Partial Differential Equations
  - P E 5563, Mathematical Modeling and Simulation
  - P E 5713, Introduction to Geostatistics
  - P E 5990, Special Studies: Petroleum Inverse Problems

**THESIS RESEARCH (Thesis students only, 6 hours):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>P E 5980, Research for Master’s Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**ELECTIVES (12-24 hours):**

- **Thesis Students:**
  - 12 hours of approved electives including a maximum of 3 hours of special studies

- **Non-thesis Students:**
  - 24 hours of approved electives including a maximum of 3 hours of special studies

**Note:**

- Students may apply only 3 credit hours of S/U graded courses (excluding thesis) toward a master’s degree. Thesis students must give a technical presentation at a graduate seminar or professional meeting, or publish a paper.

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The master’s degree requires the equivalent of at least two semesters of satisfactory graduate work and additional work as may be prescribed for the degree.

- All coursework applied to the master’s degree must carry graduate credit.

- Master’s degree programs which require a thesis consist of at least 30 credit hours. All non-thesis master’s degree programs require at least 32 credit hours.

- Credit transferred from other institutions must meet specific criteria and is subject to certain limitations.

- Courses completed through correspondence study may not be applied to the master’s degree.

- 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).

A student who has done satisfactory graduate work and has earned a 3.0 grade point average may file for master’s candidacy.

Program effective SU07. Check sheet version 9/2015