# 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>Credit 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>Credit 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.

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

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**Petroleum Engineering (standard)**

- M765-Q512
  - Master of Science

**Program effective SU07. check sheet version 9/2015**