

REQUIREMENTS FOR THE MASTER OF SCIENCE
MEWBOURNE COLLEGE OF EARTH AND ENERGY
THE UNIVERSITY OF OKLAHOMA

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2025 through Spring 2026

General Requirements
Minimum Total Hours (Thesis) 30
Minimum Total Hours (Non-Thesis) 36

Program
Petroleum Engineering (standard)
M765-Q512
Master of Science

Minimum Total Hours (Thesis): 30

Minimum Total Hours (Non-Thesis): 36

Program Code: M765-Q512

- Students may apply only 3 credit hours of S/U graded courses (excluding thesis) toward a master's degree.

Thesis Option

The Thesis option requires one of the following: 1. Publish a paper in a refereed journal or conference proceeding. 2. Paper accepted for publication in a journal. 3. Oral presentation of a paper at a conference. 4. Oral presentation as part of the department graduate seminar. The student must be listed as first or second author and the topic must relate to the student's thesis. The Graduate College will not authorize a student to defend until the graduate liaison has confirmed the student has met this requirement.

Code	Title	Credit Hours
Core Courses ¹		
P E 5353	Advanced Drilling	3
P E 5523	Advanced Production Engineering	3
P E 6573	Advanced Reservoir Engineering	3
Applied Math		
Choose one course from the following or other approved applied math course:		3
MATH 4163	Introduction to Partial Differential Equations (G)	
P E 5563	Mathematical Simulation Models	
P E 5990	Special Studies (Petroleum Inverse Problems)	
Thesis Research		
P E 5980	Research for Master's Thesis	6
Electives		
Choose 12 hours of electives approved by the graduate liaison, including a maximum of 3 hours of special studies		12
Total Credit Hours		30

Non-Thesis Option

Code	Title	Credit Hours
Core Courses ¹		
P E 5353	Advanced Drilling	3
P E 5523	Advanced Production Engineering	3
P E 6573	Advanced Reservoir Engineering	3
Applied Math		
Choose one course from the following or other approved applied math course:		3

MATH 4163 Introduction to Partial Differential Equations (G)

P E 5563 Mathematical Simulation Models

P E 5990 Special Studies (Petroleum Inverse Problems)

Electives	
Choose 24 hours of electives approved by the graduate liaison, including a maximum of 3 hours of special studies	24
Total Credit Hours	36

- ¹ With approval of the graduate liaison, other graduate-level coursework appropriate for the degree may substitute for Core Courses on the basis of undergraduate or professional background.

General Requirements for all Master's Degrees

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* 30 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).

Additional information for master's degree students may be found in the Graduate College Bulletin.

More information in the catalog: (<http://ou-public.courseleaf.com/mewbourne-earth-energy/mewbourne-petroleum-geological-engineering/petroleum-engineering-standard-master-science/>).