



The University of Texas at Austin
**Petroleum and Geosystems
Engineering**
Cockrell School of Engineering

MS Degree Requirements:

The student's program of coursework is selected with the approval of the Graduate Advisor, with consultation of the supervising professor. These courses are selected from four modules: Basic Skills, Discipline Areas, PGE Electives, and Outside Electives.

For students without a BS degree in petroleum engineering, the elective courses and courses taken in each module may be used to make up some (but not all) deficiencies. This may limit the choice of elective courses.

THESIS OPTION (30 semester credit hours)

- A minimum of two courses from Module I.
- A minimum of two courses from Module II.
- A minimum of two courses from Module III.
- A minimum of two courses from Module IV.
- Thesis (PGE 698A and PGE 698B).

REPORT OPTION (33 semester credit hours)

- A minimum of three courses from Module I.
- A minimum of three courses from Module II.
- A minimum of two courses from Module III.
- A minimum of two courses from Module IV.
- M.S. Report (PGE 398R).

PhD FAST TRACK OPTION (33 semester credit hours)

- A minimum of three courses from Module I.
- A minimum of three courses from Module II.
- A minimum of two courses from Module III.
- A minimum of two courses from Module IV.
- M.S. Report (Ph.D. proposal: PGE 398R).

NO THESIS NO REPORT OPTION (36 semester credit hours)

- A minimum of three courses from Module I.
- A minimum of three courses from Module II.
- A minimum of four courses from Module III.

- A minimum of two courses from Module IV.

The MS program consists of courses from four different modules described below.

Module I - Basic Skills

- PGE 381K Engineering Analysis (can count as one outside course)
- PGE 381L Advanced Petrophysics
- PGE 381M Transport Phenomena
- PGE 384 Advanced Thermodynamics and Phase Behavior

Module II - Discipline Areas

- PGE 38x Drilling (course approved by Graduate Advisor)
- PGE 388 Advanced Reservoir Engineering
- PGE 385K Advanced Multi-Well Formation Evaluation
- PGE 383 Advanced Production Engineering

Module III - PGE Electives

- PGE 38x Graduate Electives within PGE.
- PGE 382/ EER 396 Basic Geology Concepts for Engineers (students with no PE background must take this course as an elective)

Module IV - Outside Electives

- Students must take two graduate engineering or science courses outside the PGE department. At least one of these outside courses must be taught by non-PGE faculty. PGE 381K can satisfy one of the two outside course requirements.