

Petrophysics, M.S.

This degree program requires a minimum of 30 semester credit hours.

The coursework for this multidisciplinary program involves courses in physics (PHYS), geology (GEOL), and natural gas engineering (NGEN).

Thesis Option

Code	Title	Semester Credit Hours
Thesis Requirement		
GEOL 5306	Thesis	3
GEOL 5306	Thesis	3
Course Options		24
A total of 24 credit hours must be selected from the list below and approved by the Graduate Coordinator. Courses not listed below may be taken with the approval of the Graduate Coordinator.		
PHYS 5382	Exploration Geophysics	
PHYS 5385	Seismology	
PHYS 5388	Borehole Geophysics	
GEOL 5310	Advanced Topics in Geology	
NGEN 5303	Advncd Topics in Nat Gas Engin	
GEOL 5101	Research Problems I ¹	
GEOL 5201	Research Problems II ¹	
GEOL 5303	Research Problems III ¹	
NGEN 5303	Advncd Topics in Nat Gas Engin	
NGEN 5312	Pressure Transient Analysis	
NGEN 5363	Advanced Reservoir Engineering	
NGEN 5387	Quantitative Well Log Analysis	
Total Semester Credit Hours		30

¹ These courses may be repeated in any combination for a maximum total of 9 semester credit hours applied toward the graduate degree.

Non-Thesis Option

A total of 30 credit hours must be selected from the list below and approved by the Graduate Coordinator. All students are required to complete a short research project.

Code	Title	Semester Credit Hours
Course Options		
PHYS 5382	Exploration Geophysics	3
PHYS 5385	Seismology	3
PHYS 5388	Borehole Geophysics	3
GEOL 5305	Graduate Research Project	3
GEOL 5310	Advanced Topics in Geology	1-3
GEOL 5101	Research Problems I ¹	1
GEOL 5201	Research Problems II ¹	2
GEOL 5303	Research Problems III ¹	3
NGEN 5303	Advncd Topics in Nat Gas Engin	1-3
NGEN 5312	Pressure Transient Analysis	3

NGEN 5363	Advanced Reservoir Engineering	3
NGEN 5387	Quantitative Well Log Analysis	3

¹ These courses may be repeated in any combination for a maximum total of 9 semester credit hours applied toward the graduate degree.