

# GEOLOGY, MS

## Requirements for Students Matriculating in or before Academic Year

2020-2021. Learn more about Graduate College Academic Regulation 7.0 (<http://catalog.okstate.edu/graduate-college/#70>).

## Thesis Option

Total Hours: 30 Hours

Code	Title	Hours
<b>Required Coursework</b>		
GEOL 5243	Research Methods and Techniques in Geosciences	3
Select 21 hours of the following courses. Not to exceed 12 hours of GEOL 5990 "Advanced Studies in Geology." Maximum 9 hours can be transferred with "B" or better. Courses from other academic units can be taken with approval of MS student Research Committee. All courses are 3 hours.		21
GEOL 5093	Quaternary Geology and Geochronology	
GEOL 5183	Paleontology of Depositional Sequences	
GEOL 5223	Advanced Methods in Structural Geology	
GEOL 5213	Seismic Interpretation	
GEOL 5243	Research Methods and Techniques in Geosciences	
GEOL 5273	Depositional Systems	
GEOL 5283	Subsurface Geologic Methods	
GEOL 5353	Advanced Well Log Analysis	
GEOL 5363	Carbonate Depositional Systems	
GEOL 5383	Sequence Stratigraphy	
GEOL 5433	Isotope Geochemistry	
GEOL 5453	Groundwater Modeling	
GEOL 5463	Physical Hydrogeology	
GEOL 5483	Petroleum Water Management	
GEOL 5513	Marine Geology	
GEOL 5533	Organic Geochemistry	
GEOL 5543	Introduction to Exploration Seismology	
GEOL 5573	Marine Biogeochemical Cycles	
GEOL 5603	Basin Evolution	
GEOL 5633	Exploration Prospect Evaluation	
GEOL 5753	Volcanology	
GEOL 5773	Planetary Geology	
GEOL 5990	Advanced Studies in Geology	
GEOL 5990	Advanced Studies in Geology (Plate Tectonics)	
GEOL 5990	Advanced Studies in Geology (Spectral Signal Processing)	
GEOL 5990	Advanced Studies in Geology (Seismic Data Processing)	
GEOL 6103	Gravity and Magnetic Methods	
GEOL 6133	Unconventional Petroleum Reservoirs	
GEOL 6283	Geology of Shales	
GEOL 6303	Electrical and Electromagnetic Methods	
GEOL 6363	Carbonate Reservoir Characterization	
GEOL 6386	Sequence Stratigraphy of Shales	

GEOL 6403		
GEOL 6553	Contaminant Transport	
<b>Hours Subtotal</b>		<b>24</b>
<b>Thesis</b>		
GEOL 5000	Master's Thesis	6
<b>Hours Subtotal</b>		<b>6</b>
Total Hours		30

## Non-Thesis Option

Total Hours: 33 Hours

Code	Title	Hours
<b>Required Coursework</b>		
GEOL 5990	Advanced Studies in Geology	3
Select 30 hours of the following courses. Maximum 9 hours can be transferred. All courses are 3 hours.		30
GEOL 5093	Quaternary Geology and Geochronology	
GEOL 5183	Paleontology of Depositional Sequences	
GEOL 5223	Advanced Methods in Structural Geology	
GEOL 5213	Seismic Interpretation	
GEOL 5243	Research Methods and Techniques in Geosciences	
GEOL 5273	Depositional Systems	
GEOL 5283	Subsurface Geologic Methods	
GEOL 5353	Advanced Well Log Analysis	
GEOL 5363	Carbonate Depositional Systems	
GEOL 5383	Sequence Stratigraphy	
GEOL 5433	Isotope Geochemistry	
GEOL 5453	Groundwater Modeling	
GEOL 5463	Physical Hydrogeology	
GEOL 5483	Petroleum Water Management	
GEOL 5513	Marine Geology	
GEOL 5533	Organic Geochemistry	
GEOL 5543	Introduction to Exploration Seismology	
GEOL 5573	Marine Biogeochemical Cycles	
GEOL 5603	Basin Evolution	
GEOL 5633	Exploration Prospect Evaluation	
GEOL 5753	Volcanology	
GEOL 5773	Planetary Geology	
GEOL 5990	Advanced Studies in Geology (Plate Tectonics)	
GEOL 5990	Advanced Studies in Geology (Spectral Signal Processing)	
GEOL 5990	Advanced Studies in Geology (Seismic Data Processing)	
GEOL 6103	Gravity and Magnetic Methods	
GEOL 6133	Unconventional Petroleum Reservoirs	
GEOL 6283	Geology of Shales	
GEOL 6303	Electrical and Electromagnetic Methods	
GEOL 6363	Carbonate Reservoir Characterization	
GEOL 6386	Sequence Stratigraphy of Shales	
GEOL 6403		

<b>Hours Subtotal</b>	<b>33</b>
Total Hours	33

## Graduate College Master's Program Requirements

Learn more about Graduate College 2020-2021 Master's Degree Program Requirements (<http://catalog.okstate.edu/graduate-college/>). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.