# GEOLOGY, MS

**Requirements for Students Matriculating in or before Academic Year 2022-2023.** Learn more about Graduate College Academic Regulation 7.0 ([http://catalog.okstate.edu/graduate-college/#70](http://catalog.okstate.edu/graduate-college/#70)).

## Thesis Option

**Total Hours:** 30

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEOL 5243</td>
<td>Research Methods and Techniques in Geosciences</td>
<td>3</td>
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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.

- GEOL 5093 Quaternary Geology and Geochronology
- GEOL 5183 Paleontology and Paleoceanographic Reconstruction
- 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  
  - Advanced Studies in Geology (Plate Tectonics)
  - Advanced Studies in Geology (Spectral Signal Processing)
  - 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

**Hours Subtotal:** 24

**Thesis**

GEOL 5000 Master’s Thesis

**Hours:** 6

**Hours Subtotal:** 6

**Total Hours:** 30

## Report Option

**Total Hours:** 32

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<tr>
<td>GEOL 5990</td>
<td>Advanced Studies in Geology</td>
<td>3</td>
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Select 29 hours of the following courses. Maximum 9 hours can be transferred. All courses are 3 hours.

- GEOL 5093 Quaternary Geology and Geochronology
- GEOL 5183 Paleontology and Paleoceanographic Reconstruction
- 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
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- 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  
  - Advanced Studies in Geology (Plate Tectonics)
  - Advanced Studies in Geology (Spectral Signal Processing)
  - 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

**Hours Subtotal:** 24

**Report Option**

GEOL 6386 Sequence Stratigraphy of Shales

GEOL 6553 Contaminant Hydrogeology

**Total Hours:** 32
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**Graduate College Master's Program Requirements**

Learn more about Graduate College 2022-2023 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.