## GEOLOGY, MS

Requirements for Students Matriculating in or before Academic Year 2023-2024. 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>
<thead>
<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
- 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 5990** Advanced Studies in Geology (Plate Tectonics)

**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

**Hours Subtotal**: 24

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<tr>
<td>GEOL 5000</td>
<td>Master's Thesis</td>
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**Total Hours**: 30

### Report Option

Total Hours: 32

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<tbody>
<tr>
<td>GEOL 5990</td>
<td>Advanced Studies in Geology</td>
<td>3</td>
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</table>

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
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- GEOL 5773 Planetary Geology
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- GEOL 5990 Advanced Studies in Geology (Seismic Data Processing)
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- 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

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

Learn more about Graduate College 2023-2024 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.