**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

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

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 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: Contaminant Transport

**Hours Subtotal**: 24

**Thesis**

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<th>Code</th>
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<tbody>
<tr>
<td>GEOL 5000</td>
<td>Master’s Thesis</td>
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**Hours Subtotal**: 6

**Total Hours**: 30

**Non-Thesis Option**

**Total Hours:** 33 Hours

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<tr>
<td>GEOL 5990</td>
<td>Advanced Studies in Geology</td>
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Select 30 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 of Depositional Sequences
- GEOL 5223: Advanced Methods in Structural Geology
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- GEOL 5243: Research Methods and Techniques in Geosciences
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- GEOL 6303: Electrical and Electromagnetic Methods
- GEOL 6363: Carbonate Reservoir Characterization
- GEOL 6386: Sequence Stratigraphy of Shales
- GEOL 6403: Contaminant Transport

**Hours Subtotal**: 30
<table>
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<tr>
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<tr>
<td>Total Hours</td>
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**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.