# GEOLOGY, MS

## Requirements for Students Matriculating in or before Academic Year 2019-2020

Learn more about Graduate College Academic Regulation 7.0 ([http://catalog.okstate.edu/graduate-college](http://catalog.okstate.edu/graduate-college)).

### Thesis Option

**Total Hours:** 30 Hours

<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>
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</table>

Select 21 hours of the following courses. Not to exceed 8 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 5203
- 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 5443
- GEOL 5453 Groundwater Modeling
- GEOL 5463 Physical Hydrogeology
- GEOL 5483 Integrated Petroleum Water Resources Management
- GEOL 5513 Marine Geology
- GEOL 5533 Organic Geochemistry
- GEOL 5543 Introduction to Exploration Seismology
- GEOL 5553
- 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 Plate Tectonics
- GEOL 5990 Spectral Signal Processing
- GEOL 5990 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

### Thesis

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<thead>
<tr>
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<tr>
<td>GEOL 5000</td>
<td>Master’s Thesis</td>
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### Hours Subtotal

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### Total Hours

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### Non-Thesis Option

**Total Hours:** 33 Hours

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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 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
- GEOL 5203
- GEOL 5213 Seismic Interpretation
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### Hours Subtotal

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<tr>
<td>GEOL 6403</td>
<td>Biogeophysics</td>
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**General Graduate College Requirements**

- A minimum Grade-Point-Average of 3.00 is required
- A minimum Grade of "C" is required in all degree applicable courses
- No courses utilizing the Pass-No Pass grading system are permitted
- GRAD 5082 or GRAD 5092 may not be used to meet degree requirements

**Additional Graduate College Masters Degree Requirements**

**Plan I (coursework with thesis)**

- A minimum of 30 credit hours
  - A minimum of 24 coursework credit hours comprised of:
    - 6 research or creative component credit hours
    - 21 in-residence credit hours (maximum of 9 transfer hours with "B" or better)
    - 21 credit hours at 5000- or 6000-level

**Plan II (coursework without thesis)**

- A minimum of 32 credit hours
  - A maximum of 3 credit hours of research or creative component
  - A minimum of 23 in-residence credit hours (maximum of 9 transfer credit hours with "B" or better)
  - A minimum of 21 credit hours at the 5000- or 6000-level