## 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).

### Thesis Option

**Total Hours:** 30 Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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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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</tbody>
</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: Seismic Interpretation
- GEOL 5213: 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: Groundwater Modeling
- GEOL 5453: Physical Hydrogeology
- GEOL 5463: Integrated Petroleum Water Resources Management
- GEOL 5513: Marine Geology
- GEOL 5533: Organic Geochemistry
- GEOL 5543: Introduction to Exploration Seismology
- GEOL 5553: Marine Biogeochemical Cycles
- GEOL 5603: Basin Evolution
- GEOL 5633: Exploration Prospect Evaluation
- GEOL 5753: Volcanology
- GEOL 5773: Planetary Geology
- GEOL 5900 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

**Hours Subtotal:** 24

**Thesis**

- GEOL 5000: Master's Thesis

**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>
<td>3</td>
</tr>
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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
- GEOL 5203: Seismic Interpretation
- GEOL 5213: 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: Groundwater Modeling
- GEOL 5453: Physical Hydrogeology
- GEOL 5463: Integrated Petroleum Water Resources Management
- GEOL 5513: Marine Geology
- GEOL 5533: Organic Geochemistry
- GEOL 5543: Introduction to Exploration Seismology
- GEOL 5553: Marine Biogeochemical Cycles
- GEOL 5603: Basin Evolution
- GEOL 5633: Exploration Prospect Evaluation
- GEOL 5753: Volcanology
- GEOL 5773: Planetary 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

**Hours Subtotal:** 24

**Total Hours:** 33
GEOL 6403  Biogeophysics

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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