### GEOSCIENCES (HYDROGEOSCIENCE), B.S.

**Requirements for a Concentration in Hydrogeoscience**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>GEO 3349</td>
<td>Hydrologic Processes</td>
<td>3</td>
</tr>
<tr>
<td>or GEO 4341</td>
<td>Introduction to Hydrology</td>
<td></td>
</tr>
<tr>
<td>or GEO 4346</td>
<td>Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>GEO 4386</td>
<td>Remote Sensing</td>
<td>3-4</td>
</tr>
<tr>
<td>or GEO 4485</td>
<td>Introduction to Geographic Information Systems</td>
<td></td>
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<tr>
<td>GEO 4345</td>
<td>Water Management</td>
<td>3</td>
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Select at least three semester hours from the following:

- GEO 4317: Sedimentary Geochemistry
- GEO 4322: Global Biogeochemical Cycles
- GEO 4340: Geomorphology
- GEO 4383: Climate Change and Society I
- GEO 4388: Earth System Science
- GEO 4300: Senior Thesis
- or GEO 4302: Mentored Research Experience
- or GEO 4303: Internship

### Required Courses in Other Fields

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MTH 1321</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 1322</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>or STA 2381</td>
<td>Introductory Statistical Methods</td>
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Sixteen semester hours from:

- BIO 1303: Human Ecology: Our Place in Nature
- BIO 1305: Modern Concepts of Bioscience
- & BIO 1105: and Modern Concepts of Bioscience Laboratory
- BIO 1306: Modern Concepts of Bioscience, continued
- & BIO 1106: and Modern Concepts of Bioscience Laboratory
- CHE 1301: Basic Principles of Modern Chemistry I
- & CHE 1101: and General Chemistry Laboratory I
- CHE 1302: Basic Principles of Modern Chemistry II
- & CHE 1102: and General Chemistry Laboratory II
- PHY 1408: General Physics for Natural and Behavioral Sciences I
- PHY 1409: General Physics for Natural and Behavioral Sciences II
- PHY 1420: General Physics I
- PHY 1430: General Physics II

No more than four hours from:

- ANT 1404: Introduction to Human Evolution
- ANT 1407: Introduction to Archaeology
- AVS 1313: Introduction to Meteorology
- BUS 2222: Introduction to Energy Commerce
- CSI 1430: Introduction to Computer Science I with Laboratory