

EES-BS-Earth Sciences Concentration is designed to provide the knowledge, skills, and experience required for graduate study or for entering professional employment. Course work in EES combines lecture, lab, and field experiences with geology and the broader earth sciences, which include subjects such as water, soils, and atmosphere. Graduates of this program are well positioned for employment opportunities within industrial, governmental, and educational institutions.

<p>Wright State Core (40 cr. hours) credits</p> <p>Element 1: Communication (2 courses) 6</p> <p>Element 2: Mathematics: MTH 2240 or MTH 2300 4</p> <p>Element 3: Global Traditions (2 courses) 6</p> <p>Element 4: Arts and Humanities (1 course) 3</p> <p>Element 5: Social Sciences (2 courses) 6</p> <p>Element 6: Natural Sciences:</p> <p style="padding-left: 20px;">EES 2510 Earth Systems 4</p> <p style="padding-left: 20px;">EES 2550 Earth History 4</p> <p>Additional Core Courses:</p> <p style="padding-left: 20px;">EES 2600 Environmental Science and Society 3</p> <p style="padding-left: 20px;">STT 2640 or MTH 2310 4</p> <p>Related Course Requirements (27 cr. hours) credits</p> <p>CHM 1210/L General Chemistry & Lab I 5</p> <p>CHM 1220/L General Chemistry & Lab II 5</p> <p>CS 1160 Intro to Computer Programming 4</p> <p><u>Plus One of the Following Sequences</u> 10</p> <p>PHY 1110/L Principles of Physics & Lab I</p> <p>PHY 1120/L Principles of Physics & Lab II</p> <p>-or-</p> <p>PHY 2400/L General Physics & Lab I</p> <p>PHY 2410/L General Physics & Lab II</p> <p><u>Plus One of the Following</u> 3</p> <p>MTH 2320 Calculus III (4)</p> <p>MTH 2330 Differential Eq (3)</p> <p>STT 4300 Biostatistics (3)</p> <p>EES Core Requirements (9 cr. hours) credits</p> <p>EES 3120 Earth Materials 4</p> <p>EES 4340 Mapping Methods 2</p> <p>EES 4350 Field Mapping 2</p> <p>EES 4280 EES Colloquium (twice at 0.5 cr hr each) 1</p>		<p>EES Core Electives (31 cr. hours) credits</p> <p>Choose 31 hours from the following:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">EES 3160</td> <td style="width: 40%;">Stratigraphy & Sedimentology</td> <td style="width: 30%; text-align: right;">4</td> </tr> <tr> <td>EES 3250</td> <td>Climate Change</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4190</td> <td>Paleobiology</td> <td style="text-align: right;">4</td> </tr> <tr> <td>EES 4210</td> <td>Earth Structure and Tectonics</td> <td style="text-align: right;">4</td> </tr> <tr> <td>EES 4220</td> <td>Introduction to Geophysics</td> <td style="text-align: right;">4</td> </tr> <tr> <td>EES 4240</td> <td>Oceanography</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4270</td> <td>Process Geomorphology</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4290</td> <td>Remote Sensing of Earth</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4300</td> <td>Environmental Applications of GIS</td> <td style="text-align: right;">4</td> </tr> <tr> <td>EES 4330</td> <td>Global Biogeochemical Cycles</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4430</td> <td>Analysis & Prediction of Earth Systems</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4460</td> <td>Sequence Stratigraphy</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4540</td> <td>Subsurface Fluid Flow</td> <td style="text-align: right;">4</td> </tr> <tr> <td>EES 4550</td> <td>Aqueous Environmental Geochemistry</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4560</td> <td>Ground Water Contamination</td> <td style="text-align: right;">3</td> </tr> <tr> <td>EES 4610</td> <td>Near-surface Geophysics</td> <td style="text-align: right;">4</td> </tr> <tr> <td>EES 4960</td> <td>Senior Thesis Research</td> <td style="text-align: right;">4-6</td> </tr> </table> <p>Approved Electives (8 cr. hours)</p> <p>Choose 8 hours of approved courses from the Colleges of Engineering & Computer Science & Science & Mathematics</p> <p>General Electives (5 cr. hours)</p> <p>Choose 5 hours of unrestricted courses</p> <p>Total Degree Semester Hours = 120</p>	EES 3160	Stratigraphy & Sedimentology	4	EES 3250	Climate Change	3	EES 4190	Paleobiology	4	EES 4210	Earth Structure and Tectonics	4	EES 4220	Introduction to Geophysics	4	EES 4240	Oceanography	3	EES 4270	Process Geomorphology	3	EES 4290	Remote Sensing of Earth	3	EES 4300	Environmental Applications of GIS	4	EES 4330	Global Biogeochemical Cycles	3	EES 4430	Analysis & Prediction of Earth Systems	3	EES 4460	Sequence Stratigraphy	3	EES 4540	Subsurface Fluid Flow	4	EES 4550	Aqueous Environmental Geochemistry	3	EES 4560	Ground Water Contamination	3	EES 4610	Near-surface Geophysics	4	EES 4960	Senior Thesis Research	4-6
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