**Major/Degree:** Environmental Science and Management BS: Energy & Climate Concentration [ESMC]

**Units for the major:** 78  
**Total units:** 120 units required for this BS degree

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**Major Academic Plans (MAP) show a general recommended pathway to graduation. Meet with your major advisor each semester to discuss your progress and degree plan for future semesters. Consult the HSU catalog for complete list of major program courses. See the current schedule of classes for courses offered in General Education, American Institutions, and Diversity & Common Ground requirements. This MAP is based on the 2019-20 catalog.**

### Fall (semester 1)

<table>
<thead>
<tr>
<th>Description</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD GE A2 [1]</td>
<td>COMM 100</td>
<td>3</td>
</tr>
<tr>
<td>LD GE B: Math [1]</td>
<td>MATH 101 (3) or MATH 101i + MATH 1 (4)</td>
<td>3-4*</td>
</tr>
<tr>
<td>LD GE E</td>
<td>SCI 100</td>
<td>3</td>
</tr>
<tr>
<td>Major; LD GE B Life</td>
<td>BOT 105</td>
<td>4</td>
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</table>

**Spring (semester 2)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD GE A1 [1]</td>
<td>ENGL 102 (+ optional ENGL 110)</td>
<td>3-4</td>
</tr>
<tr>
<td>LD GE D; Major</td>
<td>ESM 105</td>
<td>3</td>
</tr>
<tr>
<td>Major; LD GE B Phys</td>
<td>CHEM 107</td>
<td>4</td>
</tr>
<tr>
<td>American Institutions</td>
<td>NAS 200 (U.S. History and DCG)</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisite</td>
<td>MATH 101T (3)</td>
<td>3</td>
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</table>

*1 unit math support course does not count toward degree. Semester Total: 13-14

### Sophomore Year

**Fall (semester 3)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Major [Concentration]</td>
<td>PHYX 106</td>
<td>4</td>
</tr>
<tr>
<td>LD GE A3 [1]</td>
<td>Critical Thinking course</td>
<td>3</td>
</tr>
<tr>
<td>Major [Core]</td>
<td>STAT 109</td>
<td>4</td>
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<tr>
<td>Major [Concentration]</td>
<td>ECON 104</td>
<td>3</td>
</tr>
<tr>
<td>LD GE A1</td>
<td>ENGL 103 (+ optional ENGL 110)</td>
<td>3-4</td>
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</table>

**Spring (semester 4)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major [Concentration]</td>
<td>PHYX 107</td>
<td>4</td>
</tr>
<tr>
<td>Major [Core]</td>
<td>ESM 230</td>
<td>3</td>
</tr>
<tr>
<td>Major; LD GE D</td>
<td>GSP 101/L</td>
<td>3</td>
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<tr>
<td>Major [Concentration]</td>
<td>MATH 105</td>
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<tr>
<td>LD GE C1 or C2</td>
<td>Double count LD C and DCG [4]</td>
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**Semester Total:** 17-18

### Junior Year

**Fall (semester 5)**

<table>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Major; UD GE B</td>
<td>ESM 303</td>
<td>4</td>
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<tr>
<td>Major [Core]</td>
<td>ESM 325</td>
<td>3</td>
</tr>
<tr>
<td>Major [Concentration]</td>
<td>Restricted elective [7]</td>
<td>3</td>
</tr>
<tr>
<td>American Institutions</td>
<td>PSCI 110 or PSCI 159 or FOR 359</td>
<td>3</td>
</tr>
<tr>
<td>LD GE C1 or C2</td>
<td>lower division Area C GE</td>
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**Spring (semester 6)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major; UD GE D</td>
<td>ESM 305</td>
<td>3</td>
</tr>
<tr>
<td>Major [Concentration]</td>
<td>ENGR 305</td>
<td>3</td>
</tr>
<tr>
<td>Major [Concentration]</td>
<td>ESM 370</td>
<td>3</td>
</tr>
<tr>
<td>LD GE C1 or C2</td>
<td>lower division Area C GE</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
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</table>

**Semester Total:** 16

### Senior Year

**Fall (semester 7)**

<table>
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<tr>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Major [Concentration]</td>
<td>ECON 450</td>
<td>4</td>
</tr>
<tr>
<td>Major [Concentration]</td>
<td>ESM 411</td>
<td>3</td>
</tr>
<tr>
<td>Major [Concentration]</td>
<td>ENGR 371</td>
<td>3</td>
</tr>
<tr>
<td>Major [Concentration]</td>
<td>Restricted elective [7]</td>
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</tr>
<tr>
<td>Major [Concentration]</td>
<td>ESM 435</td>
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**Spring (semester 8)**

<table>
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<tr>
<th>Description</th>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Major [Concentration]</td>
<td>ESM 425</td>
<td>3</td>
</tr>
<tr>
<td>UD GE C</td>
<td>UD GE Area C [recommend ESM 309B]</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Total:** 15

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A1 = Written Communication; A2 = Oral Communication; A3 = Critical Thinking; C1 = Arts; C2 = Humanities;  
DCG = Diversity & Common Ground; GE = General Education; LD = Lower Division; UD = Upper Division; See page 2 for notes.

Revised: 5/14/18
Notes

[1] Requirement: Complete LD GE A1, A2, A3 & B: Math with C- or higher in each course; Complete by 60 units earned.

[2] One American Institution course will also count for LD GE D.


[4] Complete 2 DCG courses, (one must be domestic) with courses that also meet GE.


[6] ECON 423, GEOG 301, GSP 270, ESM 309B, ESM 435 or other upon approval from your advisor.