## University of Idaho Study Abroad Transformative Learning Map

**College of Agricultural and Life Sciences**  
**Department of Biological and Agricultural Engineering**  
**Environmental Engineering Option 4-Year Plan**

<table>
<thead>
<tr>
<th>Key</th>
<th>Course Information</th>
<th>Credit</th>
<th>Key</th>
<th>Course Information</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Flag]</td>
<td>BAE 142-Engineering for Living Systems</td>
<td>2</td>
<td>![Flag]</td>
<td>Chem 112- Principles of Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>![Flag]</td>
<td>Chem 111- Principles of Chemistry I</td>
<td>4</td>
<td>![Flag]</td>
<td>Math 175- Analytic Geometry &amp; Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>![Flag]</td>
<td>ISEM 101- Integrated Seminar</td>
<td>3</td>
<td>![Flag]</td>
<td>Phys 211/211L- Engineering Physics/Lab</td>
<td>4</td>
</tr>
<tr>
<td>![Flag]</td>
<td>Engl 102- College Writing &amp; Rhetoric</td>
<td>3</td>
<td>![Flag]</td>
<td>Elective- Humanities or Social Science</td>
<td>3</td>
</tr>
<tr>
<td>![Flag]</td>
<td>Math 170- Analytic Geometry &amp; Calculus I</td>
<td>4</td>
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</tbody>
</table>

**Total:** 16  
**Total:** 16  
**TOTAL:** 32

### Sophomore:

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>![Flag]</td>
<td>BAE 242- Engineering Analysis &amp; Design</td>
</tr>
<tr>
<td>![Flag]</td>
<td>MMBB 250/255- General Microbiology/Lab</td>
</tr>
<tr>
<td>![Flag]</td>
<td>Phys 212- Engineering Physics II</td>
</tr>
</tbody>
</table>

**Total:** 17  
**Total:** 16  
**TOTAL:** 33

### Junior:

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
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</thead>
</table>

**Find UI Approved International Universities for Your Major**  
http://www.webs.uidaho.edu/ipo/abroad/search/subjects.htm

**Find USAC Study Abroad Programs for Your Major**  
http://usac.unr.edu/programs/search.aspx

This Transformative Learning Map (TLM) is intended to be used as an advising tool only, not a contract between the student and the university, and is subject to verification by the student’s academic advisor and/or department chair. The TLM is designed to help students plan for transformative learning experiences such as study abroad, national student exchange, service-learning and internships. While a good faith effort has been made to provide accurate and up-to-date information for the TLM, course and degree requirements may change and so it is imperative you meet with your academic advisor to determine what changes, if any, have taken place and plan your experiences accordingly. Please refer to the Catalog for specific requirements and seek the advice of your advisor for questions.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 432- Bioreactor Theory and Design for Waste Management OR BAE 433- Bioremediation</td>
<td>3</td>
</tr>
<tr>
<td>BAE 355- Fundamentals of Hydrologic Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Engr 335- Engineering Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>BAE 462- Electric Power and Controls</td>
<td>3</td>
</tr>
<tr>
<td>Engr 350- Engineering Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>Engr 105- Engineering Graphics</td>
<td>2</td>
</tr>
<tr>
<td>MMBB 380- Introductory Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>Engr 360 Engineering Economy</td>
<td>2</td>
</tr>
<tr>
<td>Elective- Humanities or Social Science</td>
<td>3</td>
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<tr>
<td>Stat 301- Probability &amp; Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Elective- Humanities or Social Science</td>
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</tr>
<tr>
<td>Total</td>
<td>16</td>
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</table>

**Senior:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 478- Engineering Design I</td>
<td>3</td>
</tr>
<tr>
<td>BAE 441- Instrumentation and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>BAE 491- Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BAE 461- Bioprocess Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 330- Fundamentals of Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>BAE 479- Engineering Design II</td>
<td>2</td>
</tr>
<tr>
<td>Engr 320- Engineering Thermodynamics &amp; Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>BAE 461- Bioprocess Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Comm 101- Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Elective- BAE</td>
<td>3</td>
</tr>
<tr>
<td>Electives (For example, BAE 452- Environ. Water Quality)</td>
<td>3</td>
</tr>
<tr>
<td>Elective- Humanities or Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
</tr>
</tbody>
</table>

**Total Credits**

128*  

*Total for degree = 128 credits. Course offerings may change from year to year. Always check the current course catalog.

The University of Idaho reserves the right to change, amend or discontinue any articulation agreement or curriculum plan at any time.