# Slippery Rock University of Pennsylvania - Curriculum Guide

## Bachelor of Science in Geography

### Concentration in Environmental Studies and Sustainability

### LIBERAL STUDIES REQUIREMENTS (45-46 credits)
See Liberal Studies Guide for Goal and Enrichment choices

#### GOAL COURSE REQUIREMENTS

Complete Goal requirements as indicated below (36-37 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
<th>Gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102</td>
<td>Critical Writing</td>
<td>3</td>
<td></td>
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<tr>
<td>ENGL 104 or ENGL 105</td>
<td>Critical Reading * or Intro to Literary and Cultural Studies*</td>
<td>3</td>
<td></td>
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<tr>
<td>COMM 200</td>
<td>Public Speaking*</td>
<td>3</td>
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</tbody>
</table>

**Basic Requirements (9 credits)**

The Arts (3 credits)

- Goal

Global Community (9 credits)

- Goal – Non-US
- Goal – Non-US
- Goal – US

Human Institutions/Interpersonal Relationships (3 credits)

- Goal

Science, Technology & Math (9-10 credits)

- Goal – Sci
- Goal – Sci
- Lab – Sci
- Goal – Math

Challenges of the Modern Age (3 credits)

- Goal

### ENRICHMENT COURSE REQUIREMENTS

Choose one course from three of the following Enrichment areas (9 credits)

- The Arts
- Global Community
- Human Institutions/Interpersonal Relationships
- Science, Technology & Math

### COMPUTER COMPETENCY

Students must demonstrate "computer competency" by:

- Passed Exam
- Complete one of the following courses: CPSC 100, 110, 110, or PE 202 at SRU or another post-secondary institution

### OTHER BASIC REQUIREMENTS

Check with your advisor or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.

- ACSD 110 | Beginning Algebra | 3 |

### IMPORTANT CURRICULUM GUIDE NOTES

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.

* Course may have a prerequisite. See Undergraduate Online Catalog.

◊ Course can be counted as both a Major and a Liberal Studies Requirement, but earns credit only once toward your 120-credit total.

• Courses counts for 50% of Major requirements and Major GPA

PASSHE = Pennsylvania State System of Higher Education Institution

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### MAJOR/CONCENTRATION REQUIREMENTS

(54-56 credits)

- 27 major credits must be taken at SRU or PASSHE
- 27 major credits must be taken at the 300 level or above

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<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GES 150*</td>
<td>The Natural Environment</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GES 205*</td>
<td>Cultural Geography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GES 315*</td>
<td>Cartography I*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GES 331*</td>
<td>Economic Geography</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GES 362*</td>
<td>Principles of Sustainability</td>
<td>3</td>
<td></td>
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#### Basic Core (15 credits)

- GES 115* | Map Reading and Interpretation | 1 | |
- GES 220* | General Methods of Field Work * | 3 | |
- GES 325* | Intro to Geographic Information Science* | 3 | |
- ECEO 272* | Introduction to Georeports* | 1 | |

#### Environmental Studies Core (12 credits)

- GES 135* | Intro to Environmental Problems | 3 | |
- GES 235* | Conservation* | 3 | |
- GES 324* | Environmental Law and Policy | 3 | |
- PHIL 324* | Environmental Ethics | 3 | |

#### Capstone Experience (3 credits)

- GES 444* | World Environmental Thought | 3 | |
- ECEO/GEOS 469* | Field Investigations in the Geosciences | 1-3 | |
- GES 489* | Field Studies | 3 | |

### NATURAL AND SOCIAL SCIENCE AREAS

(at least five courses must be 300 level or above)

#### Geography Electives - Natural Science (10-12 credits)

- ECEO 121^ | Meteorology/Lab ◊ | 4 | |
- ECEO 131^ | Oceanography ◊ | 3 | |
- ECEO 201^ | Earth Materials and Processes/Lab ✯ | 3 | |
- ESEO 340^ | Air Pollution Meteorology ✯ | 3 | |
- ESEO 341^ | Geomorphology* | 3 | |
- ESEO 360^ | Introduction to Hydrology* | 3 | |
- ENVS 311^ | Environmental Monitoring and Sampling | 3 | |
- GES 355^ | Earth’s Changing Climate | 3 | |
- GES 356^ | Earth’s Changing Climate Lab* | 1 | |
- GES 410^ | Remote Sensing | 3 | |
- GES 426^ | Environmental Modeling* | 3 | |

#### Geography Electives – Social Science (6 credits)

- GES 215^ | Planning for Sustainable Communities | 3 | |
- GES 305^ | Environmental Economic Geography | 3 | |
- GES 344^ | Environmental Justice | 3 | |
- GES 345 A | Population Analysis | 3 | |
- GES 361^ | Gender and the Environment* | 3 | |
- GES 363^ | Energy and Society | 3 | |
- GES 375^ | Geography of Intolerance | 3 | |
- ENGL 410^ | Literature of the Environment* | 3 | |
- ECON 315^ | Economics of Sustainable Development* | 3 | |

### 40 Service Learning Hours are Required

- SERVICE
  - Service Learning

### ELECTIVES

### GPA REQUIREMENT

- 2.0 or higher Major GPA
- 2.0 or higher Overall GPA

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GEOGRAPHY – BS (6142)

Concentration in Environmental Studies & Sustainability (ESSU)

Effective Fall 2014

Enrollment Management

Revised 07 - 2017