Environmental Planning and Design Curriculum (573) / Environ. Geomatics

Please see SEBS Core Curriculum Requirements (https://sebs.rutgers.edu/core/)

Major Requirements:
Environmental Planning and Design, Environmental Geomatics Option

Requirement V1: Physical Science (also fills SEBS Physical Science Requirement) 3 credits, 1 course
01:450:101 Earth Systems (3) or 01:460:100 Planet Earth (3) or 01:460:101 Introductory Geology (4)

Requirement V2: Quantitative Methods, 4 credits, 1 course
01:640:115 Pre-calculus College Math (4), or 01:640:111 Pre-calculus I and 01:640:112 Pre-calculus College Math II or 01:640:135 Calculus 1 or 01:640:151 Calculus 1 for Math/Physics

Requirement V3: Environmental Planning and Design Core, 21 credits, 6 courses
11:573:231 Fundamentals of Environment Planning (3)
11:573:232 Fundamentals of Environmental Geomatics (3)
11:550:231 Intro. to Environmental Design I Studio (5)
    Co-requisite: 11:550:237 Visualization I Drawing and Drafting
11:550:233 Landscape Plants I (3)
11:550:237 Visualization I Drawing and Drafting (3) (fulfills SEBS Arts & Humanities)
11:550:241 Construction I Mapping and Engineering (4)

Requirement V4: Geomatics Sequence 22 credits, 8 courses
01:960:401 Basic Statistics for Research (3)
    Prerequisite: 01:640:115 or equivalent.
11:573:202 Environ Issues US (3)
11:573:233 Geomatics Lab (1)
11:573:362 Intermediate Environmental Geomatics (3)
11:573:369 Analytic Methods Environmental Geomatics (3)

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11:573:371 Air-Photo Interpretation (3)
11:573:462 Advanced Environmental Geomatics (3)
11:573:474 Advanced Remote Sensing (3)

**Requirement V5: Plants/Environment Sequence, 10 credits, 3 courses**

11:573:444 Watershed Management (3)
11:670:201 Elements of Meteorology or 11:670:202 Elements of Climatology (3)
11:216:101 Intro to Ecology and Evolution (3) or
11:216:332 Plant Ecology (4) or
11:216:351 Principles of Ecology (3)

**Prerequisites:** 01:119:103 Principles of Biology

**Requirement V6: Experience Based Education Courses**

11:015:497 George H. Cook Scholars Program (NB) (3, 4, 5, 6) or
11:550:332 Junior Praxis Studio (NB) (5) or
11:550:333 Design Built Studio (NB) (5) or
11:902:300 School of Environmental and Biological Sciences (SEBS) Internship I (NB) (3)

**Free elective credits will be needed to complete the required 128 credits.**
List of suggested but not required Certificates/Minors

Certificate Programs:

Environmental Planning (21)
International Agriculture/Environment (21-23)
Real Estate Development (24)
Social Strategies for Environmental Protection (27)
Urban Planning (24)

Minor Programs:

Agroecology (21-24)
Minor in Ecology and Evolution (20-25 credits)
Environmental and Business Economics (21-23)
Entomology (19-26)
Environmental Policy, Institutions, and Behavior (21)
Environmental Sciences (21 credits)
Marine Sciences (18)
Meteorology (18)
Natural Resource Management (20-25)
Plant Science (18-20)
Science and Agriculture Teacher Education (24-27)
Individualized Concentration (18-24)
## List of Suggested Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>11:216:450</td>
<td>Landscape Ecology</td>
<td>3</td>
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<tr>
<td>11:550:101</td>
<td>Landscape Studies</td>
<td>3</td>
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<tr>
<td>11:550:337</td>
<td>Visualization II Digital Design &amp; Presentation</td>
<td>3</td>
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<td>11:550:371</td>
<td>Ag &amp; the Landscape</td>
<td>3</td>
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<tr>
<td>11:550:403</td>
<td>Japanese Gardens</td>
<td>3</td>
</tr>
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<td>11:550:430</td>
<td>Adv. LA History</td>
<td>3</td>
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<tr>
<td>11:550:443</td>
<td>Study Abroad Studio</td>
<td>5</td>
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<tr>
<td>11:550:450</td>
<td>Advanced CAD LA</td>
<td>3</td>
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<td>11:550:553</td>
<td>Theories of LA</td>
<td>3</td>
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<tr>
<td>11:550:554</td>
<td>Post-Industrial LA</td>
<td>3</td>
</tr>
<tr>
<td>11:216:403</td>
<td>Urban Forestry</td>
<td>3</td>
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Several: Dept. of Human Ecology

Several: Bloustein School of Planning and Public Policy

Several: Dept. of Ecology, Evolution and Natural Resources and

Several: Dept. of Environmental Sciences