

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)

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

11:216:450 Landscape Ecology	3
11:550:101 Landscape Studies	3
11:550:337 Visualization II Digital Design & Presentation (3)	
11:550:371 Ag & the Landscape	3
11:550:403 Japanese Gardens	3
11:550:430 Adv. LA History	3
11:550:443 Study Abroad Studio	5
11:550:450 Advanced CAD LA	3
11:550:553 Theories of LA	3
11:550:554 Post-Industrial LA	3
11:216:403 Urban Forestry (3)	
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	