

# Department of Geography and Environmental Science

## Environmental Studies – BA (58-77 credits) Effective Fall 2019

The environmental studies program at Hunter provides broad training in environmental studies. The focus of our training is earth system science and environmental sustainability. We have two tracks within our program: Earth System Science and Human Dimensions of Earth Systems.

### **HUNTER CORE REQUIREMENT**

GEOL 10100 Life and Physical Sciences

PGEOG 13000 Scientific World

GEOL 18000 Scientific World

GEOL 10000 Scientific World

GEOL 10500 Scientific World

(STEM) Life and Physical Sciences

Please note that no more than two courses from any one department will count for the CUNY Common Core Requirement.

### **COURSES REQUIRED FOR THE MAJOR**

Based on placement exams or transferred courses, students may place into some more advanced Mathematics and Statistics courses without taking Hunter College pre-requisites. See the Mathematics and Statistics department for details.

#### **A) Earth System Science Track: Sub-Plan ENV ES (59-77 credits)**

##### **Framework Courses Within the Department (13-14 credits)**

GEOG 10100 People and Their Environment (3) **or** GEOG 15000 World Regional Geography (3)

GTECH 20100 Introduction to Geographic Information Science (4)

GEOG 22600 Environmental Conservation: Resource Management (3) **or** PGEOG 24100 Population Geography (3)

One 100-level GEOL or PGEOG earth science course (3-4)

##### **Required Math Courses (3-16 credits)**

MATH 10100 Algebra for College Students (3)\* **or**

MATH 101EN Algebra for College Students – Enhanced (3)\*

MATH 10150 Mastery of Symbolic Computation (1)\*

MATH 12400 (STEM) College Algebra and Trigonometry(4)\* **or**

MATH 12500 (STEM) Precalculus (4)\* **or**

MATH 12550 (STEM) Precalculus with Workshop (4)\*

**and**

MATH 14000 Mathematical Reasoning Workshop (1) \* unless students earn a grade of B- or above in MATH 12550

MATH 15000 (STEM) Calculus I (4)\*

STAT 21300 Introduction to Applied Statistics (3)\*

##### **Must choose two of the following sequences in traditional bench sciences (18-22 credits)**

- BIOL 10000 Principles of Biology I (4.5)\*
- BIOL 10200 Principles of Biology II (4.5)\*
- CHEM 10200 General Chemistry I (4)\*
- CHEM 10400 General Chemistry II (4)\*
- CHEM 10600 General Chemistry Lab (3)\*
- PHYS 11000 General Physics: Introductory Course in Mechanics, Heat, and Sound (4.5)\*
- PHYS 12000 General Physics: Introductory Course in Electricity and Magnetism, Light, and Atomic Physics (4.5)\*
- PHYS 11100 (5.5)\* with permission of advisor
- PHYS 12100 (5.5)\* with permission of advisor

##### **Core Environmental Studies Courses (10)**

PGEOG 25000 Earth System Science 1 (3.5)

PGEOG 25100 Earth System Science 2 (3.5)

##### **Capstone Experience (Select One Course)**

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- GEOL 39300 Individual Study in Geology (3)
- PGEOG 39300 Individual Study in Environmental Studies (3)
- PGEOG 49000 Honors in Environmental Studies (3)

### **Sub-Plan Specific 20000- and 30000-Level Elective Requirement (15 credits)**

Students must choose at least 15 credits from the GEOL, PGEOG and GTECH offerings with at least three courses selected at the 30000 level.

Advanced courses offered by complimentary disciplines may be considered and selected as appropriate electives for the major in consultation with the Major Advisor.

Students who are completing an additional major or minor may use courses required by both majors to fulfill requirements for the Environmental Studies major.

### **B) Human Dimensions of Earth Systems Track: Sub-Plan ENV MP (58-67)**

#### **Framework Courses Within the Department (25-26 credits)**

- GEOG 10100 People and Their Environment (3) **or** GEOG 15000 World Regional Geography (3)
- One 100- level GEOL or PGEOG earth science course (3-4)
- GEOG 22600 Environmental Conservation: Resource Management (3)
- PGEOG 24100 Population Geography (3)
- GTECH 20100 Introduction to Geographic Information Science (4)
- GEOG 243000 Urban Geography (3)
- GTECH 30100 Quantitative Methods in Geography (3)
- GTECH 36100 GIS Analysis (3)

#### **Required Math Sequence (0-8 credits)**

MATH 10100 Algebra for College Students (3)\* **or**  
 MATH 101EN Algebra for College Students – Enhanced (3)\*  
 MATH 10150 Mastery of Symbolic Computation (1)\*  
 MATH 12400 (STEM) College Algebra and Trigonometry(4)\* **or**  
 MATH 12500 (STEM) Precalculus (4)\* **or**  
 MATH 12550 (STEM) Precalculus with Workshop (4)\*

#### **Courses Offered By Supporting Disciplines (14 credits)**

CHEM 10200 General Chemistry I (4)\*  
 CHEM 10400 General Chemistry II (4)\*  
 CHEM 10600 General Chemistry Lab (3)\*  
 STAT 21300 Introduction to Statistics (3)\*

#### **Core Environmental Studies Courses (10 credits)**

PGEOG 25000 Earth System Science 1 (3.5)  
 PGEOG 25100 Earth System Science 2 (3.5)

#### **Capstone Experience. Select One Course**

- GEOL 39300 Individual Study in Geology (3)
- PGEOG 39300 Individual Study in Environmental Studies (3)
- PGEOG 49000 Honors in Environmental Studies (3)

#### **Sub-Plan Specific 200- and 300- Level Elective Requirement (9 credits)**

Students must choose at least nine credits of advanced courses from the GEOG, GEOL, PGEOG and GTECH offerings with at least two courses selected at the 30000 level.

Advanced courses offered by complementary disciplines may be considered and selected as appropriate electives for the major in consultation with the Environmental Studies Major Advisor.

Notes:

\* Courses can be used for more than one program

For more information, contact the Undergraduate  
 Environmental Studies Advisor at [esmajor@hunter.cuny.edu](mailto:esmajor@hunter.cuny.edu)