

## Environmental Studies

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The Environmental Studies program at TCNJ challenges students with an innovative, multidisciplinary curriculum designed to address contemporary issues of global climate change and environmental injustice. Students gain a deep, sophisticated understanding of environmental issues and approaches, putting skills into practice with experiential learning. Graduates are well-prepared to succeed in a range of career fields, including energy, environmental protection, business, transportation, planning, public policy, regulatory administration, research and design, and waste management.

### Requirements for the Major: 10 units

Ten total course units are required for the Environmental Studies major. Each student completes four courses as part of the major core, three courses from Natural Sciences and Engineering disciplines, and three courses from Humanities, Social Science, or established Interdisciplinary programs. Many options that satisfy the Environmental Studies requirements have prerequisites that require additional coursework that may not be required for the Environmental Studies major (these are indicated with an asterisk in lists below; students should consult the bulletin from the department that offers the course to determine prerequisites). Other options may be included in the Environmental Studies major by advisement and permission of the Program Director.

### The major's core requirements include (4 units):

- ENV 200 Introduction to Environmental Studies (1 unit)
- MAT 127 Calculus A or STA 115 Statistics or STA 215 Inferential Statistics (1 unit)
- Disciplinary Methods Course from list below (1 unit)
- ENV 499 Capstone (1 unit)

### Major options include (6 units):

- Three courses from Natural Sciences and Engineering disciplines from list below (3 units)
- Three courses from Humanities, Social Science, and Interdisciplinary fields from list below (3 units)

### Disciplinary Methods Courses

- BIO 352 Biostatistics\*
- ECO 231 Applied Economics and Business Statistics\*
- PBHG 652 Biostatistics for Public Health\*
- POL 200 Political Analysis\*
- PSY 203 Design and Statistical Analysis\* (Psychology double-majors only)
- SOC 302 Quantitative Research Methods\*

MAT 330/BIO 330	Mathematical Biology*
MAT 341	Computational Mathematics*
STA 303	Design of Experiments*
STA 304	Sampling and Nonparametric Statistics*
STA 305	Regression Analysis*
STA 306	Applied Multivariate Analysis*

**Major Course Options in Natural Sciences and Engineering**

BIO 221	Ecology and Field Biology*
BIO 315	Plants and People*
BIO 362	Marine Science (Sea Grant Consortium at Sandy Hook)
BIO 363	Marine Biology (Sea Grant Consortium at Sandy Hook)
BIO 420	Ecology of Evolution and Plant Insect Interaction
BIO 455	Ecological Developmental Biology*
BIO 465	Physiological and Behavioral Ecology*
BIO 365, 366	Natural History of the Galapagos Islands and Ecuador I, II*
CHE 365	Environmental Chemistry*
CIV 381	Environmental Engineering*
MST 203	Environmental Science for Educators
PHY 120	Introduction to Geology
PHY 171	Introduction to Meteorology
PHY 220	Advanced Geology*
PHY 345	Physics of Clouds and Climate*

**Major Course Options in Humanities, Social Science, and Interdisciplinary Fields**

ANT 341	Environmental Anthropology
ANT 346	Climate Justice and Social Action
ECO 350	Economics of Environmental Quality*
HIS 388	Global Environmental History
JPW 335	Health and Environmental Journalism
LIT 381	Literary History of Nature
PBH 379	Environmental and Occupational Health
PBHG 678	Water, Land, Air: Critical Issues in Global Environmental Health*
PHL 265	Environmental Ethics
POL 355/INT 355	Political Economy of Natural Resources
POL 307/PUB610	Environmental Policy
SOC 345	Environmental Sociology: Inequality, Pollution, and the Environment
SOC 355	Introduction to Urban Planning
WGS 374	EcoFeminism*

### **Program Entrance, Retention, and Exit Standards**

Students in good academic standing and first-term students without a GPA are allowed to declare a major as long as entrance requirements have been met. To declare a major in Environmental Studies, paperwork must be submitted by college deadlines. Upon declaration, the chair gives written notice to the Office of Records and Registration and assigns the student an advisor within the major. Students proceed according to the requirements of the Bulletin in effect at the time of their formal declaration.

### **Program Entrance, Retention, and Exit Standards**

Every major program at the College has set standards for allowing students to remain in that program, to transfer within the College from one program to another, and to graduate from a program. The following are the standards for Environmental Studies. Minimum grades are noted in parentheses:

Entry to the program:

- Internal transfer into the program from another program within the College requires completion of an application process. Students should fill out the Change of Major form and return it to the Environmental Studies Program Director. Current TCNJ students may apply for pre-major status, but will only be accepted into full major status upon successful completion of ENV 200 (C) and STA 115 (B) or STA 215 (C) or MAT 127 (C) with the minimum required grades (indicated in parentheses).
- External transfer students who wish to enter The College of New Jersey with a Sociology major must meet college transfer admission standards.

Retention in the program:

- All students (including transfer students) must take at least five course units at The College of New Jersey from Environmental Studies options, including ENV 200 and ENV 499.
- Students must earn a C- or better in each elective course applied to the Environmental Studies major, and a C or better in these “critical content courses”: ENV 200, ENV 499, and their interdisciplinary methods class. Students must successfully complete their introductory quantitative course: STA 115 (B-) or STA 215 (C) or MAT 127 (C).
- In accordance with College policy, courses may only be repeated once. Courses can be repeated twice only with permission from the Program Director and the Chair of the Department that offers the course.

Students must make consistent progress in the major. Specifically, any student not registered for major classes for three consecutive semesters will be dismissed, unless the student has completed the major or there are extenuating circumstances.

Graduation requirements:

- Graduation standards: requires a GPA of 2.0 in courses that count towards the Environmental Studies major. Only grades of C– or higher in Environmental Studies major options, and C or higher in ENV 200, ENV 499, disciplinary methods, STA 215 or MAT 127; or B- or higher in STA 115 (if taken in place of STA 215 or MAT 127) can be applied toward graduation degree requirements. Students who want to apply a course toward graduation for which they received a D+ or lower must repeat the course, earning a higher grade.

### **Suggested Four-Year Sequence for Environmental Studies Majors**

The following sequence is a suggestion only; students should craft a schedule to best meet their own needs. Students admitted in their first year as Environmental Studies majors but who plan to declare a second major must follow that major's requirements for internal transfers; these students may choose to modify their first-year courses.

#### **First Year**

FYS: First Year Seminar	1 course unit
HSS 99: Orientation Course for Humanities and Social Sciences	0 course units
Foreign Language*	2 course units
ENV 200: Introduction to Environmental Studies	1 course unit
STA 115 or STA 215** or MAT 127**	1-2 course unit
ES or Core Options (BIO 201 in Fall for Bio Majors ONLY)	2-3 course units

\* *Chinese 151 and 152 and Japanese 151 and 152 are intensive courses and carry two course units of credit each. Students should take this into account when planning a normal four-course semester.*

\*\**Students who plan to pursue a second major that requires MAT 127 may need to complete MAT 120 in their first semester, based on testing.*

#### **Second Year**

At least one semester of the second or third year of studying abroad is encouraged.

ES Options	2-3 course units
Language*	1 course unit
Disciplinary Methods course	1 course unit
College core options (or second major/minor, free electives)	3-4 course unit

**Third Year**

At least one semester of the second or third year of studying abroad is encouraged.

ES Options	2-3 course units
College core options (or second major/minor, free electives)	5-6 course units

**Fourth Year**

ES Options	1-2 course units
ENV 499 Capstone in Environmental Studies	1 course unit
College core options (or second major/minor, free electives)	5-6 course units