

Natural Resources and Environmental Science (NRETV) Bachelor of Science Degree



Natural Resources and Environmental Science

The Natural Resources and Environmental Science program is one of the most well-established environmental science programs in the United States. This interdisciplinary program utilizes courses from across the University to construct a student's plan of study. NRES students choose from one of five concentration areas. These areas are: Air Quality, Environmental Policy and Analysis, Land Resources, Water Quality, and Emerging Environmental Challenges.

The environmental science core draws courses from soil science, atmospheric science, environmental impact analysis, ecology, and environmental policy. Students regularly take courses in conservation, environmental engineering, and geology to broaden their technical background.

Employment Opportunities

As concern for the environment grows, opportunities for NRES graduates increase in state and federal agencies and other firms involved in control technology, environmental compliance, waste minimization, environmental health and safety, remediation of contaminated sites, environmental law, and reclamation and remediation of disturbed lands.

NRES graduates work for Business and Industry, Non-profits, and governmental agencies. Some of these jobs are Environmental Consultant, Wetland Scientist, Field Chemist, Hydrologist, Surveyor, Ecological Risk Assessor, Industrial Compliance Specialist, Urban Project Coordinator, Species Conservation Specialist, Wildlife Biologist, NRES Economist, Environmental Planner, Radiation Safety Manager, and Soil Conservationist. Other NRES graduates continue their education in environmental law, teaching, or working with research at universities and industry.

Summer Employment and Internships

Students majoring in Natural Resources and Environmental Science are encouraged to spend their summers working or interning with a business or industry for on-the-job experiences. Prospective employers look favorably on job applicants who have completed an internship or work experience.

Contact Information

NRES Program
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www.purdue.edu/nres



MAJOR: NATURAL RESOURCES AND ENVIRONMENTAL SCIENCE

General 8 Semester Plan

Credits required for graduation: 120

Freshmen Year

First Semester

- (0.5) **AGR 10100** (Introduction to the College of Agriculture and Purdue University)
 - (0.5) **AGR 12200** (Introduction to Natural Resources and Environmental Science Academic Programs)
 - (3) **CHM 11100** (General Chemistry) †
 - (4) **ENGL 10600** (First-Year Composition) †
 - (3) **MA 16010** (Applied Calculus I) †
 - (3) **NRES 29000** (Introduction to Environmental Science) †
- (14)

Second Semester

- (3) **CHM 11200** (General Chemistry) †
 - (3) **COM 11400** (Fundamentals of Speech Communication) †
 - (3) **MA 16020** (Applied Calculus II) †
 - (4) Biological sciences selective †
 - (2) Elective
- (15)

Sophomore Year

Third Semester

- (4) **CHM 25700** (Organic Chemistry)
 - (3) **NRES 25500** (Soil Science)
 - (3) **STAT 30100** (Elementary Statistical Methods) †
 - (4) Biological sciences selective †
 - (3) Microeconomics selective †
- (17)

Fourth Semester

- (3) **AGRY 33500** (Weather and Climate) **or**
 - (3) **NRES 23000** (Survey of Meteorology)
 - (1) **NRES 20000** (Introduction to Environmental Careers)
 - (3) **POL 22300** (Introduction to Environmental Policy)
 - (2) Environmental biology or plant ecology selective
 - (3) Social science or humanities selective
 - (3) Elective
- (15)

Junior Year

Fifth Semester

- (6) Biochemistry, biology, chemistry, mathematics, physics, or statistics selectives
 - (6) Concentration selectives*
 - (3) Environmental biology or plant ecology selective
- (15)

Sixth Semester

- (3) **AGEC 40600** (Natural Resource and Environmental Economics)
 - (3) **FNR 21000** (Natural Resource Information Management)
 - (6) Concentration selective*
 - (3) Humanities selective ‡
- (15)

Senior Year

Seventh Semester

- (3) Biochemistry, biology, chemistry, mathematics, physics, or statistics selective
 - (3) Concentration selective*
 - (3) Social science or humanities selective
 - (3) Written or oral communication selective
 - (3) Elective
- (15)

Eighth Semester

- (6) Concentration selectives*
 - (3) Social science or humanities selective (30000+ level)
 - (5) Electives
- (14)

†-Course fulfills a University Core Foundational Outcome

‡-See University Core Foundational Outcome list of approved courses

* Concentration selectives are determined by the Concentration selected to pursue