ENVIROnMENTAL PUBLIC HEALTH, COMPREHENSIVE MAJOR

(Code 640-001)

University Requirements

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<th>Code</th>
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<th>Credits</th>
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GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

Credit Requirements

- Minimum total for graduation: 120
- Upper division credits (courses numbered 300 and higher): 39
- Liberal Education Core: 36
- Academic Concentrations

Grade Point Requirements

- Total: 2.00 average
- Resident: 2.00 average
- Major: 2.00 average
- Minor: 2.00 average
- Certificate: 2.00 average

University Residency Requirements

- Minimum total: 30
- Senior year: 23
- Major, Standard, upper division in residence: 12
- Major, Comprehensive, upper division in residence: 21
- Certificate: 25 percent of credits

Procedures Required for Graduation

- Obtain admission to the degree program and/or the College offering it.
- Apply for graduation on CampS.

1 Certain programs exceed this minimum.
2 See special requirements in each College.
3 See special requirements for the College of Education and Human Sciences.

Liberal Education Core

The University of Wisconsin-Eau Claire measures learning outcomes to ensure that its graduates have achieved a liberal education and prepared themselves to contribute to a complex society. Upon graduation, each undergraduate will have met the four learning goals of our liberal education core and the 11 learning outcomes they comprise.

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Knowledge Goal

- Knowledge Outcome 1 (K1): Natural Sciences: Two (2) learning experiences
- Knowledge Outcome 2 (K2): Social Sciences: Two (2) learning experiences
- Knowledge Outcome 3 (K3): Humanities: Two (2) learning experiences
- Knowledge Outcome 4 (K4): Fine Arts: One (1) learning experience

Skills Goal

- Skills Outcome 1 (S1): Written and Oral Communication: Two (2) learning experiences
- Skills Outcome 2 (S2): Mathematics: One (1) learning experience
- Skills Outcome 3 (S3): Creativity: One (1) learning experience

Responsibility Goal

- Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity: Two (2) learning experiences
- Responsibility Outcome 2 (R2): Global Perspectives: One (1) learning experience
- Responsibility Outcome 3 (R3): Civic and Environmental Issues: One (1) learning experience

Integration Goal

- Integration Outcome 1 (I1): Integration: Two (2) learning experiences

Service-Learning Goal

- Service-Learning: 30 hours

College Degree Requirements

Bachelor of Science in Environmental Public Health

University Graduation Requirements. All candidates for degrees must fulfill the requirements for credits, curriculum, GPA, and University residency as specified in the section of this catalog titled University Graduation Requirements.

College Graduation Requirements: Grade Point Averages. All candidates for degrees in the College of Arts and Sciences must earn minimum resident and total GPAs of 2.00 in the major, the minor, and the certificate. The resident and total GPAs for the major are computed using all attempted credits applicable to the major including those offered by departments other than the major department. The resident and total GPAs for the minor and certificate are computed similarly.

Major-Minor and Major-Certificate Requirements. A standard major (a minimum of 36 credits) must be supplemented by a minor (a minimum of 24 credits) or by a certificate (12 to 18 credits) to meet graduation requirements for completing a first and second degree program. No minor or certificate is required with a Comprehensive Major (60 or more credits) or with two majors of 36 or more credits each.
Certain degree programs which include Comprehensive Majors may require more than the minimum of 120 credits for graduation.

Acceptable academic program combinations are determined at the college level. A major and a minor or a major and certificate or two majors (if available) may not be elected in the same department or program, except in the approved combinations listed here.

**College Credits.** Earn at least 90 credits in courses offered by the College of Arts and Sciences.

### Bachelor of Science in Environmental Public Health Degree in the College of Arts and Sciences (B.S.E.P.H.)

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work).

### Major Requirements


The field of environmental public health is composed of individuals whose professional efforts are directed toward controlling environmental health hazards, and preserving and improving environmental factors for the achievement of optimum health, safety, comfort, and well-being. An appreciation for cultural values that impact human environmental health complements courses that provide students with the educational background necessary for employment in regulatory agencies and industries concerned with environmental quality and the public’s health. This comprehensive major includes both foundation classes in biology, chemistry, physics, and mathematics, and specialized courses in environmental and public health, such as food and water sanitation, industrial hygiene, and environmental toxicology.

### Mission

The Environmental Public Health (ENPH) major provides undergraduate students with a comprehensive understanding of science and its application to protect human environmental health. The degree prepares students for careers as Environmental Health Professionals and safety specialists, integrating a scientific background, technical skills, and professional ethics.

### Goals

The ENPH major strives to prepare graduates with the knowledge, awareness, and skills to:

1. Understand the natural world through applied chemistry, biology, physics, and mathematics;
2. Identify short- and long-term hazards to human and environmental health through critical thinking;
3. Serve the public by addressing human health risks through research, communication and intervention;
4. Identify and address cross-cultural, economic, and technological barriers to serving public health interests; and
5. Demonstrate professional ethics, values, and responsibility in all areas of practice.

### Scholarships

Several scholarships are available to students in the ENPH major. Additional information may be obtained from the faculty or by visiting the Financial Aid Website. Students are invited to participate in the Student National Environmental Health Association, the goal of which is to improve the health and well-being of people by focusing on environmental public health issues and to provide students an introduction to professional organizations.

### Internship

An internship or practical experience is an integral part of the Environmental Public Health major, and an important component of preparation for career or graduate school. This off-campus practicum is a full-time work experience with a health-related agency or industry, typically taken during the summer between the junior and senior year.

### Bachelor of Science in Environmental Public Health (B.S.E.P.H.)

The B.S.E.P.H. degree is accredited by the National Environmental Health Science and Protection Accreditation Council. The degree prepares the recipient to take the National Environmental Health Association exam for the Registered Environmental Health Specialist/Registered Sanitarian credential.

### ENPH Major Requirements

Minimum sixty-two semester credits, including:

- **Core Science Courses (included in the ENPH Major Designation)**
  - BIOL 221 Foundations of Biology I 4
  - BIOL 151 Biology of Humans 4
  - CHEM 213 Quantitative Analysis 4
  - CHEM 325 Organic Chemistry I with Laboratory 4
  - And select one of the following two courses:
    - BIOL 306 Infectious Disease Ecology 3
    - BIOL 361 Biology of Microorganisms 5
  - Elective: One course selected from:
    - ENPH 115 Global Environmental and Public Health 3
    - ENPH 225 Introduction to Public Health 3
    - ENPH 291 Special Topics 1-3
    - GEOG 135 Introduction to Geospatial Analysis 3
    - GEOG 178 Conservation of the Environment 3
    - BIOL 180 Environmental Biology and Conservation 3

- **Core ENPH Courses (field trips required in some courses)**
  - ENPH 110 Introduction to Environmental Health 3
  - ENPH 322 Radiological Health 3
  - ENPH 432 Preparation for Practicum 2
  - ENPH 435 Practicum in Environmental Public Health 2-4
  - ENPH 441 Water and Wastewater 3
  - ENPH 443 Microbial Safety of Food 4
  - ENPH 445 Hazardous and Solid Waste Management 3
  - ENPH 450 Epidemiology 3
  - ENPH 460 Fundamentals of Industrial Hygiene 3
  - ENPH 464 Occupational Safety Management 3
  - ENPH 476 Vector-Borne Disease Control 3
  - GEOG/ENV 377 U.S. Environmental and Sustainability Policy 3
  - ENPH 490 Environmental Toxicology and Risk Assessment 3

- **Other requirements outside the major**
  - MATH 108 Earth Algebra

or
MATH 109  Algebra for Calculus
or
Competency to enter MATH 111 A Short Course in Calculus

MATH 246  Elementary Statistics  4
CHEM 103  General Chemistry I  4
CHEM 104  General Chemistry II  4
PHYS 211  General Physics  5
PHYS 212  General Physics  4

Electives: One course selected from:

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<tr>
<td>ECON 268</td>
<td>Environmental Economics</td>
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<tr>
<td>GEOG/ENV</td>
<td>International Environmental Problems and Policy</td>
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<td>378</td>
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<td>CJ 307</td>
<td>Small Group Communication</td>
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<tr>
<td>PHIL 306</td>
<td>Ethics of Health Care</td>
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<td>PHIL 320</td>
<td>Environmental Ethics</td>
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<tr>
<td>POLS 346</td>
<td>Public Policy in the United States</td>
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**Satisfactory/Unsatisfactory Policy**

The only credits that may be earned under the Satisfactory/Unsatisfactory option are for Independent Study. S/U credits may not total more than three.

**Internship**

An internship or practical experience is a requirement for the B.S.E.P.H. degree. Typically between the junior and senior year, each student is required to enroll in four credits of summer practicum (ENPH 435) and pay fees to the University. Students anticipating enrollment in the practicum should notify the Environmental Public Health faculty no later than February 1, and enroll in ENPH 432 the spring semester prior to their summer practicum.