ENVIRONMENTAL PUBLIC HEALTH, COMPREHENSIVE MAJOR

(Code 640-001)

University Requirements

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

Credit Requirements

Minimum total for graduation 1 120
Upper division credits (courses numbered 300 and higher) 39
Liberal Education Core (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header1) 36
Academic Concentrations (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header16) 1
Grade Point Requirements (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header14) 2

Total 2.00 average
Resident 2.00 average
Major 2.00 average
Minor 2.00 average
Certificate 2.00 average

University Residency Requirements (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header15)

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.

Applicability of Credits Toward Graduation

Junior College or Two-Year College Credits. A maximum of 72 semester credits earned in a junior college or two-year college will be accepted as degree credits at UW-Eau Claire.

Extension Credits. Credits earned in credit outreach courses offered by UW-Eau Claire are treated as resident credits. Credits earned in extension courses offered by other units of the University of Wisconsin System are treated as transfer credits. All other (non-UW) extension and correspondence credits are normally limited to one-fourth of the total required for graduation from any curriculum.

WTCS Credits. A maximum of 72 semester credits earned in college parallel programs at Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, or Chippewa Valley Technical College may be accepted as degree credits at UW-Eau Claire. A set number

of general education courses will be accepted from other technical schools. Occupational and technical courses may also be considered for transfer if the quality and content of the course work from the technical college is judged to be comparable to course work at UW-Eau Claire. Refer to the Transfer Credit Wizard (https://my.uwec.edu/psp/PUBLIC/EMPLOYEE/HRMS/c/EAU_SS_CUSTOM.EAU_TRNCRDWZ.GBL) or contact the UW-Eau Claire Admissions Office for information about the current transfer policy.

USAFI Credit. UW-Eau Claire will accept up to 32 semester credits for work done through the United States Armed Forces Institute, under the provision for non-UW correspondence credit (see Extension Credits above).

Activity Credit (band, chorus, drama, KINS 100-184 courses) Students may count toward graduation no more than one credit of KINS 110-184 courses. Students may count toward graduation no more than four credits earned in any single activity course and no more than 12 credits resulting from any combination of activity courses (excluding KINS 110-184 courses).

Other Restricted Credits. For other University restrictions, see the following: Cooperative Education; Credit by Examination; Satisfactory/Unsatisfactory Registration; Transfer of Credits. College or departmental restrictions may also be placed on Independent Study (399-499 courses), Directed Study (395-495), and other types of credits.

APPLICABILITY OF CREDITS TOWARD GRADUATION

Credit Restrictions

Satisfactory/Unsatisfactory
Total degree credit maximum 12
Major, Standard maximum 1 course
Major, Comprehensive maximum 2 courses
Minor maximum 1 course

Credit by Examination
Total degree credit maximum ¼ of total
Major or minor maximum ½ of total

Two-Year College Credits
Total degree credit maximum 72 credits

Activity credit (band, chorus, drama, KINS 100-184)
Total KINS 100-184 maximum 1 credit
Total Band, chorus, drama maximum 12 credits
Single course band, chorus, drama maximum 4 credits

Extension credits
UW-System no maximum
Other extension/correspondence maximum ¼ of total

USAFI
USAFI maximum 32 credits
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 five learning goals of our liberal education core and the 12 learning outcomes they comprise.

LIBERAL EDUCATION CORE REQUIREMENTS

Knowledge Goal

Knowledge Outcome 1 (K1): Natural Sciences (http://catalog.uwec.edu/undergraduate/attribute-k1/) Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 2 (K2): Social Sciences (http://catalog.uwec.edu/undergraduate/attribute-k2/) Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 3 (K3): Humanities (http://catalog.uwec.edu/undergraduate/attribute-k3/) Two (2) learning experiences

Knowledge Outcome 4 (K4): Fine Arts (http://catalog.uwec.edu/undergraduate/attribute-k4/) One (1) learning experience

Skills Goal

Skills Outcome 1 (S1): Written and Oral Communication (http://catalog.uwec.edu/undergraduate/attribute-s1/) Two (2) learning experiences

One S1 must meet the University Writing Requirement (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header10)

Skills Outcome 2 (S2): Mathematics (http://catalog.uwec.edu/undergraduate/attribute-s2/) One (1) learning experience

One S2 to meet the University Mathematics Requirement (http://catalog.uwec.edu/undergraduate/graduation-requirements/#header11)

Skills Outcome 3 (S3): Creativity (http://catalog.uwec.edu/undergraduate/attribute-s3/) One (1) learning experience

Responsibility Goal

Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity (http://catalog.uwec.edu/undergraduate/attribute-R1/) Two (2) learning experiences

One R1 must satisfy Design for Diversity (http://catalog.uwec.edu/undergraduate/attribute-DDIV/#header13)

Responsibility Outcome 2 (R2): Global Perspectives (http://catalog.uwec.edu/undergraduate/attribute-R2/) One (1) learning experience

Responsibility Outcome 3 (R3): Civic and Environmental Issues (http://catalog.uwec.edu/undergraduate/attribute-R3/) One (1) learning experience

Integration Goal

Integration Outcome 1 (I1): Integration (http://catalog.uwec.edu/undergraduate/attribute-I1/) Two (2) learning experiences

Service-Learning Goal

Service-Learning (http://catalog.uwec.edu/undergraduate/attribute-SL/#header13) 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 (http://catalog.uwec.edu/undergraduate/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 (http://catalog.uwec.edu/undergraduate/arts-sciences/#academicprogramstext).

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

(Code 640-001)


Practitioners in the field of environmental public health control environmental health hazards and preserve and improve environmental factors for the achievement of optimum health, safety, comfort, and well-being. Students gain the educational background necessary to appreciate cultural values and protect air, water, soil and food resources. Graduates are employed 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, air pollution, 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**

Ten 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.

**Practicum/Internship**

A practicum or internship 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 internship or practicum is a full-time work experience with a health-related agency or industry, typically paid and 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. Graduates are prepared to take the National Environmental Health Association exam for the Registered Sanitarian credential.

**Code** | **Title** | **Credits**
--- | --- | ---
ENPH Major Requirements | | 
Minimum sixty-two semester credits, including:

**Core Science Courses (included in the ENPH Major Designation)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 151</td>
<td>Biology of Humans</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 221</td>
<td>Foundations of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 213</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 325</td>
<td>Organic Chemistry I with Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

And select one of the following two courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 250</td>
<td>Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 361</td>
<td>Biology of Microorganisms</td>
<td>5</td>
</tr>
</tbody>
</table>

Elective: One course selected from:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENPH 115</td>
<td>Global Environmental and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 225</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 291</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
<tr>
<td>GEOG 135</td>
<td>Introduction to Geospatial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 178</td>
<td>Conservation of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 180</td>
<td>Environmental Biology and Conservation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core ENPH Courses (field trips required in some courses)**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ENPH 110</td>
<td>Introduction to Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 422</td>
<td>Radiation, Air Pollution and Health</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 432</td>
<td>Preparation for Practicum</td>
<td>2</td>
</tr>
<tr>
<td>ENPH 435</td>
<td>Practicum in Environmental Public Health</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 441</td>
<td>Water and Wastewater</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 443</td>
<td>Microbial Safety of Food</td>
<td>4</td>
</tr>
<tr>
<td>ENPH 445</td>
<td>Hazardous and Solid Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 450</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 460</td>
<td>Fundamentals of Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 464</td>
<td>Occupational Safety Management</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 476</td>
<td>Vector-Borne Disease Control</td>
<td>3</td>
</tr>
<tr>
<td>GEOG/ENV 377</td>
<td>U.S. Environmental and Sustainability Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENPH 490</td>
<td>Environmental Toxicology and Risk Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other requirements outside the major**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 108</td>
<td>Earth Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MATH 109</td>
<td>Algebra for Calculus</td>
</tr>
<tr>
<td>or</td>
<td>Competency to enter MATH 111 A Short Course in Calculus</td>
<td></td>
</tr>
<tr>
<td>MATH 246</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 103 &amp; CHEM 104</td>
<td>General Chemistry I and General Chemistry II</td>
<td>8-9</td>
</tr>
<tr>
<td>or CHEM 105 &amp; CHEM 106</td>
<td>General Chemistry I Lecture and General Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>or CHEM 109</td>
<td>General Chemistry II with Lab</td>
<td></td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives: One course selected from:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 268</td>
<td>Environmental Economics</td>
<td></td>
</tr>
<tr>
<td>GEOG/ENV 378</td>
<td>International Environmental Problems and Policy</td>
<td></td>
</tr>
<tr>
<td>CJ 307</td>
<td>Small Group Communication</td>
<td></td>
</tr>
<tr>
<td>PHIL 306</td>
<td>Ethics of Health Care</td>
<td></td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>POLS 346</td>
<td>Public Policy in the United States</td>
<td></td>
</tr>
</tbody>
</table>
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 three 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.