Students must complete all General Education requirements and all Major requirements. Any acceptable General Education course which is also required in the major may apply to (double-count in) both required areas. Courses common to the areas of World Cultures, Arts and Humanities, and Social and Historical Studies may also double count. However, credit for such courses counts only once toward the total required credits for a degree.

General Education (20 – 39 credits)
(GenEd Bulletin at: www.indiana.edu/~bulletin/iub)

English Composition (0 to 3 credits, C minimum required)
Complete one of the following options:
___ 3 CMLT-C 110 Writing the World
___ 3 ENG-W 131 Elementary Composition
___ 3 ENG-W 170 Projects in Reading and Writing
___ 0 ENG-W 131 EX Elementary Composition Exemption

Mathematical Modeling (3 to 4 credits)
Complete one of the following options:
___ 4 MATH-D 116 AND MATH-D 117 Intro to Finite Mathematics I-II
___ 3 MATH-J 113 Introduction to Calculus with Applications
___ 3 MATH-M 106 The Mathematics of Decision & Beauty
___ 3 MATH-M or V or S 118 Finite Mathematics
___ 3 MATH-M or V or S 119 Brief Survey of Calculus I
___ 4 MATH-M 211 Calculus I
___ 4 MATH-M 213 Accelerated Calculus

Natural and Mathematical Sciences (5 credits)
Complete 5 credits from the list of approved N&M courses in the IUB General Education Bulletin. At least one course must be a natural science (as indicated by an asterisk in the GENED bulletin).

Arts and Humanities (6 credits)
Complete 6 credits from the list of approved A&H courses in the IUB General Education Bulletin.

Social and Historical Studies (6 credits)
Complete 6 credits from the list of approved S&H courses in the IUB General Education Bulletin.

World Languages and Cultures (0 to 14 credits)
Choose one of the following three options:
Complete 6 credits of world culture courses from the list of approved WC courses in the IUB General Education Bulletin.
OR Achieve competency in a single foreign language equal to successful completion of the four semester sequence in a world language.
OR Complete a 6-credit International experience in an approved study abroad. A list of approved course choices may be found in the IUB General Education Bulletin.

Major (69 credits)

Outdoor Recreation, Parks, & Human Ecology (18 credits)
___ 3 SPH-O 210 Intro Outdoor Recreation, Parks & Human Ecology
___ 3 SPH-O 444 Natural History & Field Ecology (P: O210) (fall only)
___ 3 SPH-O 310 Ecosystem Management (P: O210) (fall only)
___ 3 SPH-O 340 Interpretation & Tour Guiding (P: O210) (spring only)
___ 3 SPH-O 360 Human Health & Natural Environments (P: O210) (spring only)
___ 3 SPH-O 413 Applications in Outdoor Rec, Parks, & Human Ecology (P: senior standing; instructor permission) (fall only)

Required Core Courses (30 credits)
___ 3 SPH-R 200 Foundations of Leisure & Public Health S&H
___ 3 SPH-R 210 Inclusion in Recreation, Parks & Tourism
___ 3 SPH-R 311 Management in Recreation, Parks, & Tourism
___ 3 SPH-R 312 Career & Internship Prep (P: R200; sophomore standing)
___ 3 SPH-R 314 Data-Based Decision-Making
___ 3 SPH-R 410 Event Planning & Program Development (P: junior standing)
___ 12 SPH-R 497 Professional Internship (P: 320 credits; R312; R410)
___ 320 Hours Field Experience—Date Completed ___ / ___ / ___

Focal Tracks (Complete 21 credits in one of the following three tracks.)
Students majoring in ORPHE must choose one of three tracks to have a focused area of study: (1) Adventure Education, (2) Environmental Interpretation, (3) Natural Resource Management. Course options are listed below. Mandatory courses in each focal track are denoted by *.

Adventure Education (AE track students must complete CORE prgrm)
C denotes CORE class; CORE only class denoted by **; CORE is spring only.
___ 3 REL-D 350 Religion, Ethics, and the Environment
___ 3 SPH-O 279 Outdoor Advent Educ. OR O430 Outdoor Advent Prgr. *C**
___ 3 SPH-O 313 Wilderness and Protected Lands *C
___ 3 SPH-O 322 Therapeutic Outdoor Instructional Techniques
___ 3 SPH-O 324 Outdoor Experiential Edu. Instructional Techniques *C
___ 3 SPH-O 331 Wilderness First Responder *C
___ 3 SPH-O 420 Principles of TOP
___ 3 SPH-R 350 Seminar in Rec: Topic: Client Management *C**
___ 2 SPH-W 305 Intro to Wilderness Leadership

Environmental Interpretation
___ 3 AMST-A 150 Intro to Native Americans and Indigenous Studies
___ 3 ANTH-A 122 Interpersonal Communication
___ 3 ANTH-A 408 Museum Practicum (P: ANTH-A 403 or instructor permission)
___ 3 ANTH-E 320 Indians of North America
___ 3 ANTH-E 423 Life Histories
___ 3 ANTH-E 444 People and Protected Areas
___ 3 GEOG-G 185 Global Environmental Change
___ 3 SPH-O 214 Wildflowers & Wild Edibles
___ 3 SPH-O 305 Integrated Resource Management* (fall only)
___ 3 SPH-O 313 Wilderness & Protected Lands* (spring only)
___ 3 SPH-O 318 Outdoor Recreation Consortium (P: instructor permission)
___ 3 SPH-O 341 Field Techniques in Environmental Education

Requirements continued on next page
Natural Resource Management

- 3 BIOL-L 350 Environmental Biology
- 3 SPEA-E 355 Intro to Limnology
- 3 SPEA-E 363 Environmental Management
- 3 SPEA-E 422 Urban Forestry
- 3 SPEA-E 442 Habitat Analysis- Terrestrial
- 3 SPEA-E 443 Habitat Analysis- Aquatic
- 3 SPEA-E 456 Lake and Watershed Management
- 3 SPEA-E 457 Intro to Conserv Biol (P: upper-level ecology course)
- 3 SPEA-E 460 Fisheries & Wildlife Management
- 3 SPEA-E 461 Fisheries & Wildlife Management Lab
  [P: SPEA-E 272 or H 316, any Biology course, and SPEA-E 460 (can be concurrent)]
- 3 SPH-O 305 Integrated Resource Management* (fall only)
- 3 SPH-O 313 Wilderness & Protected Lands* (spring only)
- 3 SPH-O 318 Outdoor Recreation Consortium (P: instructor perm)
- 3 SPH-O 342 Applied Ecology: Water Communities
- 3 SPH-O 343 Sustainable Agriculture
- 3 SPH-R 223 Recreation-Based GIS

At least 120 credits are required for graduation.

<table>
<thead>
<tr>
<th>CATEGORIZATION</th>
<th>CREDITS</th>
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<tbody>
<tr>
<td>GENERAL EDUCATION</td>
<td>20-39</td>
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<tr>
<td>MAJOR</td>
<td>69</td>
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<tr>
<td>FREE ELECTIVES</td>
<td>12-31</td>
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</table>
# Suggested Course Sequence Map

## Outdoor Recreation, Parks, and Human Ecology

### First Semester

<table>
<thead>
<tr>
<th>Total: 30 cr</th>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPH-R 200 Foundations of Leisure &amp; PH</strong> (3)</td>
<td><strong>S&amp;H</strong></td>
</tr>
<tr>
<td><strong>IUB GenEd English Composition.</strong> (3)</td>
<td><strong>SPH-O 210, Intro to Outdoor Rec, Parks, &amp; Human Ecology</strong> (3)</td>
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<tr>
<td><strong>IUB GenEd Mathematical Modeling</strong> (3)</td>
<td><strong>IUB GenEd Arts &amp; Humanities</strong> (3)</td>
</tr>
<tr>
<td><strong>IUB GenEd Arts &amp; Humanities</strong> (3)</td>
<td><strong>IUB GenEd Natural &amp; Math. Sciences</strong> (3)</td>
</tr>
<tr>
<td><strong>IUB GenEd Natural &amp; Math. Sciences</strong> (3)</td>
<td><strong>IUB GenEd World Languages/Cultures</strong> (3)</td>
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</table>

### Second Semester

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<thead>
<tr>
<th>Total: 30 cr</th>
<th>Second Year</th>
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<tbody>
<tr>
<td><strong>SPH-O 244, Natural History &amp; Field Ecology</strong> (3)</td>
<td><strong>Electives (3)</strong></td>
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<tr>
<td>(P: O 210) (fall only)</td>
<td><strong>SPH-O 340 Interpretation &amp; Tour Guiding</strong> (3)</td>
</tr>
<tr>
<td><strong>SPH-R 210 Inclusion in RPT</strong> (3)</td>
<td>(P: O 210) (spring only)</td>
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<tr>
<td><strong>ORPHE Track Course #1</strong> (3)</td>
<td><strong>SPH-R 311 Management of RPT</strong> (3)</td>
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<tr>
<td><strong>IUB GenEd Social &amp; Historical</strong> Electives (3)</td>
<td><strong>ORPHE Track Course #2</strong> (3)</td>
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### Third Year

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<tr>
<th>Total: 32 cr</th>
<th>Third Year</th>
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<tbody>
<tr>
<td><strong>SPH-O 310, Ecosystem Mgmt</strong> (3)</td>
<td><strong>Electives (3)</strong></td>
</tr>
<tr>
<td>(P: O 210) (fall only)</td>
<td><strong>SPH-O 313, Wilderness &amp; Protected Lands</strong> (3) (spring only)</td>
</tr>
<tr>
<td><strong>SPH-R 314 Data Based Decision Making/Eval</strong> (3)</td>
<td>(ORPHE Track Course #5: required for all focal tracks)</td>
</tr>
<tr>
<td><strong>ORPHE Track Course #3</strong> (3)</td>
<td><strong>SPH-O 360, Human Health and Nat. Env.</strong> (3)</td>
</tr>
<tr>
<td><strong>ORPHE Track Course #4</strong> (3)</td>
<td>(P: O 210) (spring only)</td>
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<tr>
<td>Electives (3)</td>
<td><strong>SPH-R 312 Career Persp &amp; Internship Prep</strong> (3) (P: R200)</td>
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</table>

### Fourth Year

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<tr>
<th>Total: 28 cr</th>
<th>Fourth Year</th>
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</thead>
<tbody>
<tr>
<td><strong>SPH-O 413, Applications in ORPHE</strong> (3)</td>
<td><strong>Electives (5)</strong></td>
</tr>
<tr>
<td>(P: senior standing; inst. permission) (fall only)</td>
<td><strong>SPH-R 497 Internship</strong> (12) (P: 320 Hours; R312 at least two semesters prior to the internship semester; R410)</td>
</tr>
<tr>
<td><strong>SPH-R 410 Event Plan &amp; Program Dev</strong> (3)</td>
<td><strong>Electives (7)</strong></td>
</tr>
<tr>
<td>(P: junior standing)</td>
<td><strong>NOTE: 320 hours field experience also required.</strong></td>
</tr>
</tbody>
</table>

### NOTES:

1. A student needs to average 15 credit hours per semester to graduate in 8 semesters (120 credit hours).
2. Many students reduce their academic-year credits by taking classes in summer. However, it is difficult to get equivalent credit for major course work at other campuses or colleges. A few RPTS courses, usually required core classes, are offered each summer at IUB, usually in the early part (1st 4- or 1st 6-weeks).
3. Semester offering is provided for required coursework only. You should check the schedule of classes or with an advisor to ensure semester offerings.
4. Prior to registering for the professional internship (R497), students must document 320 Hours of practical experience in the leisure industry, for approval by their major’s faculty coordinator. Deadlines for approval of the 320 Hours requirement:
   - For a fall internship: 1 July
   - For a spring internship: 1 November
   - For a summer internship: 1 April
5. Additional R497 prerequisites include SPH-R 312 (must be taken at least two semesters prior to the R497 internship) and SPH-R 410.
6. The internship (R497) may be taken any term following completion of the required prerequisites. Students commonly complete it during the summer, often following the fourth year. Students completing degree requirements in summer may participate in the May commencement ceremony. The R497 internship is a 12-credit requirement, so students will pay tuition for this, as for other credit toward graduation.

Outdoor Recreation, Parks, and Human Ecology

Students focus studies on outdoor recreation and adventure education, the management of natural areas and resources, as well as education directed at and in natural areas and park resources. The curriculum emphasizes ecological, natural resource, and sustainability concepts, theories, and applications, the relationships and interactions of people and outdoor resources and how to manage them, and skills and knowledge to pursue specific careers in this field. Domains include environmental education, environmental and cultural interpretation, outdoor adventure education, natural resource and recreation resource management, and the relation between humans and natural environments.

A number of skill certificates are also available to students through various academic courses. For example, only at Indiana University may students learn via such living laboratories as C.O.R.E. (Conservation & Outdoor Recreation Education), Therapeutic Outdoor Programs (TOP), Great Lakes Park Training Institute, and Bradford Woods Outdoor Center.

Career possibilities include:

- National and state parks and forests, which provide opportunities within park naturalist, outdoor education coordinator, and outdoor resource / natural areas manager positions
- Commercial settings, with such positions as outdoor instructor, group facilitator, camp program planner, and outdoor program developer
- Military recreation, which supports 250,000 full-time employees with 10,000,000 users at 900 U.S. and 350 overseas locations. Positions as outdoor programmers are available on all types of military bases - Air Force, Army, Navy, and Marine.
- Municipal parks and recreation departments, which offer numerous positions in outdoor education, outdoor resource management, outdoor instruction, and camping
- Non-profit outdoor organizations, which offer careers as a sustainability educator, environmental education, outdoor group facilitator, camp program planner and director, adventure leader, outdoor education coordinator, and land stewardship and conservation coordinator.