ECOLOGY, EVOLUTION, & CONSERVATION BIOLOGY, MS

for the degree of Master of Science in Ecology, Evolution & Conservation Biology

The Program in Ecology, Evolution and Conservation Biology (PEEC) is an interdepartmental program designed to provide individualized training in preparation for careers in these disciplines. Because of the breadth of fields covered by this program, there will be no fixed course requirements other than attendance at the program’s seminar series and annual graduate student symposium. Courses taken by a student and the student’s Advisory Committee generally will come from multiple departments. The goal of the program’s regulations is to allow maximum flexibility while providing close supervision, with the outcome of producing scientists who are broadly educated and technically competent in ecology, evolutionary biology and associated disciplines. The program offers M.S. and Ph.D. degrees.

Admission
Prospective candidates must meet the requirements for admission set by the Graduate College of the University of Illinois at Urbana-Champaign. Only applicants who have graduated from an accredited college or university and who hold or will be granted a baccalaureate degree (or its equivalent) comparable in content and completed credit hours to that granted by the University of Illinois will be considered. Applicants must have a minimum grade-point average of 3.0 (A = 4.0) computed from the last two years of undergraduate (and any graduate) work completed. The program will give preference to candidates who hold a degree in biology or a closely related discipline and show promise of excellence in research and teaching. Typically, only students with strong letters of recommendation and a GPA well above the minimum stated above will be admitted. Demonstration of academic excellence by other means (e.g., extensive field or laboratory research experience) will also be considered. The Admissions Committee will make decisions concerning admission.

The director of the program must approve membership of the Masters Advisory Committee.

For additional details and requirements refer to the Program’s Graduate Handbook (https://sib.illinois.edu/peec/current/graduate-handbook) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).

Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>IB 546</td>
<td>Topics in Ecology &amp; Evolution (Section A to be taken each semester of enrollment. Section B if not taken in MS program)</td>
<td>5</td>
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Students must complete one course from each core area (p. 1)

- Ecology Core List
- Evolution Core List
- Conservation Biology Core List

Thesis Hours Required (8 min applied toward degree) (Credit in rubrics other than BIOL, NRES, PBIO or ENT must be petitioned to apply): 8

Total Hours 32

Other Requirements

<table>
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<tr>
<th>Requirement</th>
<th>Description</th>
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<tr>
<td>Other requirements may overlap</td>
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<tr>
<td>Course work in three core areas with grades no lower than B or S</td>
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<tr>
<td>Minimum 500-level Hours Required</td>
<td>12</td>
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<tr>
<td>Overall:</td>
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<tr>
<td>Minimum GPA:</td>
<td>3.0</td>
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Financial Aid
Students admitted to the Program are typically offered two years of support for the M.S. degree and five years of support for the Ph.D. Support consists of fellowships, teaching assistantships or research assistantships. Such support typically comes with a waiver of tuition, service fees, or both. Continued offers of assistantships or fellowships each academic year will depend on an evaluation of satisfactory progress by the Director of the Program. Students who require more than two years to complete the M.S. degree or five years to complete the Ph.D. degree must submit a written petition to the Director of the Program, supported by their Advisor, to be considered for an additional year of support.

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All students must register for and attend the weekly PEEC seminar series (IB 546A) each semester in residence. An orientation seminar (IB 546B) must be taken the first fall semester in residence. Excuses because of conflicts must be approved by the Director of the Program. Graduation requires the completion of a thesis. Student research will be guided and approved by an Advisory Committee of three faculty from at least two departments, including the Major Advisor who will serve as chair. The director of the program must approve membership of the Masters Advisory Committee.

Information listed in this catalog is current as of 04/2024
Since the subject matter of our Program is interdisciplinary and broad, there is no one set of subject-based learning outcomes that is suitable for the evaluation of our graduate students. Instead, we will focus on appropriate research and professional development skills.

1. Design and implement independent research and integrate and apply core knowledge related to their field in 3 core areas out of 6 (behavior, conservation biology, ecology, evolution, genetics/genomics, physiology/anatomy).

2. Demonstrate effective oral and written communication skills
   a. Presentations
   b. Publications
   c. Grant writing

3. Apply rigorous statistics/analytical methods that typify their area of study

4. Professional skills
   a. Data management
   b. Citation management
   c. Mentoring
   d. Ethics
   e. Professionalism
   f. Networking

5. Teaching experience
   a. Lead Discussions/Lab Activities Effectively
   b. Effective in the presentation of information/lecture
   c. Consistent Grader with meaningful feedback to students
   d. Genuine concern for the learning outcomes of all students