Entomology (ENTO)

Faculty
Jeffrey K. Barnes, Curator
Ashley Patrick Gregg Dowling, Associate Professor
Fiona Goggin, Professor
John D. Hopkins, Extension Associate Professor
Donn T. Johnson, Professor
Tim Kring, Professor
Kelly M. Lottin, Extension Associate Professor
Gus M. Lorenz, Extension Professor
Tanja McKay, Extension Associate Professor
Paul J. McLeod, Professor
Donald C. Stein Kraus, Professor
Fred M. Stephen, University Professor
Glenn Studebaker, Extension Associate Professor
Allen Lawrence Szalanski, Professor
Tina G. Teague, Extension Professor
Robert N. Wiedenmann, Professor

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http://www.uark.edu/depts/entomolo/

Degrees Conferred:
M.S., Ph.D. (ENTO)

Primary Areas of Faculty Research: Pest management, insect pathology, insect-plant interactions, arthropod-animal interactions, biological control, molecular biology, taxonomy, systematics, physiology, and insect ecology.

Prerequisites to Degree Program: Applicants for graduate degrees must meet all requirements for admission to the Graduate School. Applicants without a master’s degree will be accepted into the departmental program based on grade-point average (GPA), letters of recommendation, résumé and an adviser in the student’s area of interest. Applicants must present Graduate Record Examination scores for the verbal, quantitative, and writing tests. To be accepted for the Master of Science degree, an undergraduate background in physical and biological sciences is essential. An undergraduate major in entomology is not required. A cumulative GPA of 3.00 is highly desirable.

To be accepted for work toward the Ph.D. degree, the student will normally have a master’s degree from an accredited institution in entomology or a closely related field. A minimum cumulative GPA of 3.25 for courses taken at the graduate level is highly desirable. Applicants without a master’s degree will be evaluated for undergraduate research experience and strong academic credentials. Applicants must present Graduate Record Examination scores for the verbal, quantitative, and writing tests.

Requirements for the Master of Science Degree: Students studying for the Master of Science degree with a limited undergraduate background in entomology may be expected to complete more than the minimum number of credit hours (30) required for the degree. A thesis, reporting original research, and a final comprehensive oral examination are required. Specific requirements follow:

General Course Requirements: The degree program and coursework for each candidate will be arranged on an individual basis. M.S. students must register for a minimum of 30 hours of graduate credit including 6 thesis hours.

Core Course Requirements: The student must take or have taken courses equivalent to:

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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENTO 3013</td>
<td>Introduction to Entomology (Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 4024</td>
<td>Insect Diversity and Taxonomy (Even years, Fa)</td>
<td>4</td>
</tr>
<tr>
<td>ENTO 4053</td>
<td>Insect Ecology (Even years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 4123</td>
<td>Insect Pest Management (Odd years, Sp)</td>
<td>3</td>
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<tr>
<td>ENTO 5013</td>
<td>Morphology of Insects (Odd years, Fa)</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 6113</td>
<td>Insect Physiology and Molecular Biology (Even years, Sp)</td>
<td>3</td>
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A course in statistics for graduate credit is also required.

Seminar Requirements: Two semester hours of seminar are required. Seminar hours may be taken in Entomology (ENTO 6071) or, with Department Head approval, as a formal for-credit seminar offered in another department within the university. In addition, each student is required to present a seminar on his/her thesis research plans during the first year of the degree program and an exit seminar on the thesis research prior to leaving the program.

Residence Requirements: A minimum of 30 weeks in residence is required for the M.S. degree.

Grade Point Average Requirement: A minimum 3.00 GPA must be maintained. If the cumulative GPA falls below 3.00, or research or general academic progress is unsatisfactory, the student’s performance will be reevaluated by the Advisory Committee and a recommendation made on continued status as a graduate student. For details about this process, please see the Graduate Student Handbook on the departmental Web site.

Comprehensive Examination: A comprehensive oral examination covering coursework and defense of the thesis research is required. The examination is generally taken during the student’s final semester.

Requirements for the Doctor of Philosophy Degree: A major requirement for the Ph.D. degree is a dissertation based on original research in an area of entomology. Written and oral candidacy examinations covering the student’s program of study are required. A final oral examination over course work and in defense of the dissertation is required. Specific requirements follow:

General Course Requirements: The degree program and coursework for each candidate will be arranged on an individual basis by the major professor, the Advisory Committee, and the student. A minimum of 30 hours of graduate coursework, excluding seminar, must be completed. Students progressing directly from the B.S. to the Ph.D. degree may require additional coursework as defined by the Advisory Committee.

Core Course Requirements: The student must take or have taken courses equivalent to:

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A course in statistics for graduate credit is also required. Students with credit for core courses will meet requirements with relevant courses in biology, chemistry, plant or animal science, or as approved by the Advisory Committee.

Seminar Requirements: Four semester hours of seminar are required. Seminar hours may be taken in entomology (ENTO 6071) or as a formal for-credit seminar offered in another department within the University. At least three of the seminar hours must be in entomology unless approved in advance by the Department Head. In addition, each student is required to present a seminar on his/her dissertation research plans during the first year of the degree program and an exit seminar on the dissertation research.

Graduate Hour Requirements: A minimum of 30 hours of graduate coursework, excluding seminar, is required.

Residence Requirement: Students must complete two consecutive semesters of full-time graduate study to achieve residency.

Grade Point Average Requirement: A minimum 3.25 GPA must be maintained. If the cumulative GPA falls below 3.25, or research or general academic progress is unsatisfactory, the student’s performance will be reevaluated by the Advisory Committee and a recommendation made on continued status as a graduate student. For details about this process, please see the Graduate Student Handbook on the departmental Web site.

Candidacy Examination: Before completion of the fourth semester, the student will take written candidacy examinations as specified by the Advisory Committee and a comprehensive oral examination covering entomology and supporting areas. These examinations must be successfully completed at least one academic year before the degree is conferred.

Comprehensive Examination: A comprehensive oral examination covering coursework and defense of the dissertation research is required. The examination is generally taken during the student’s final semester.