MEMORANDUM

TO: Jeannine Blackwell, Dean
Graduate School

FROM: Nancy Cox, Associate Dean for Research

DATE: October 22, 2004

RE: Entomology Program Change

Attached is an application for a program change in Entomology. This program proposal has been reviewed and approved by the College of Agriculture's Graduate Curriculum Committee and all College of Agriculture faculty members.

Please let me know if you need additional information. Thank you.
Date: 27 August 2004

To: Dr. Jeannine Blackwell, Dean of the Graduate School,  
355 Patterson Office Tower, University of Kentucky

Re: Request for Changes in Masters and Doctoral Degree Programs in Entomology

From: John J. Obrycki, Chair, Department of Entomology (7-7450)  

The graduate faculty in Entomology request changes in the Masters and Doctoral degree programs in Entomology. The intent of these changes is to increase flexibility for advisory committees to waive or substitute course requirements. Currently, the Graduate Council has approved a detailed listing of PhD and MS core requirements for Entomology and final responsibility for these requirements is with the Graduate School. The faculty in the Graduate Program in Entomology request responsibility for our core requirements. It is my understanding that the Graduate School would prefer to have responsibility for establishing and monitoring core requirements reside with the Graduate Program.

I have attached the current and proposed description of the requirements for the Masters and Doctoral programs in Entomology.

Thank you for your consideration of this request.

Attachments:
# UNIVERSITY OF KENTUCKY

**REQUEST FOR CHANGE IN DOCTORAL DEGREE PROGRAM**

<table>
<thead>
<tr>
<th>Program:</th>
<th>ENTOMOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department/Division:</td>
<td>ENTOMOLOGY</td>
</tr>
<tr>
<td>College:</td>
<td>Agriculture</td>
</tr>
<tr>
<td>Bulletin pp.:</td>
<td><a href="http://www.ras.uky.edu/ss/bulletin/current/entomology.html">www.ras.uky.edu/ss/bulletin/current/entomology.html</a></td>
</tr>
<tr>
<td>Degree title (Old):</td>
<td>PhD</td>
</tr>
<tr>
<td>Degree Title (New):</td>
<td>PhD</td>
</tr>
<tr>
<td>CIP Code:</td>
<td></td>
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<tr>
<td>Accrediting agency (if applicable):</td>
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</tbody>
</table>

## 1. PROPOSED CHANGE(S) IN PROGRAM REQUIREMENTS

<table>
<thead>
<tr>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Number of transfer credits allowed</strong></td>
<td>No Change</td>
</tr>
<tr>
<td><strong>2. Residence requirement</strong>&lt;br&gt;(minimum of one year before and after Qualifying Exams)</td>
<td>No Change</td>
</tr>
<tr>
<td><strong>3. Language(s) and/or skill(s) required</strong></td>
<td>No Change</td>
</tr>
<tr>
<td><strong>4. Provisions for monitoring progress and termination criteria</strong></td>
<td>No Change</td>
</tr>
<tr>
<td><strong>5. Total credit hours required (if applicable)</strong></td>
<td>No Change</td>
</tr>
<tr>
<td><strong>6. Required courses (if applicable)</strong>&lt;br&gt;Attached</td>
<td>Will become responsibility of faculty in Graduate Program in Entomology</td>
</tr>
<tr>
<td><strong>7. Required distribution of courses within program (if applicable)</strong>&lt;br&gt;Attached</td>
<td>Will become responsibility of faculty in Graduate Program in Entomology</td>
</tr>
<tr>
<td><strong>8. Minor area or courses outside program required (if applicable)</strong>&lt;br&gt;Attached</td>
<td>Will become responsibility of faculty in Graduate Program in Entomology</td>
</tr>
<tr>
<td><strong>9. Distribution of courses levels required (400G-500/600-700)</strong>&lt;br&gt;Attached</td>
<td>Will become responsibility of faculty in Graduate Program in Entomology</td>
</tr>
<tr>
<td><strong>10. Qualifying examination requirements</strong></td>
<td>No Change</td>
</tr>
</tbody>
</table>

NOTE: To the extent that changes in 6. or 8. above involve additional courses in other programs, please include documentation from
the program(s) pertaining to the availability of such courses.

UNIVERSITY OF KENTUCKY
REQUEST FOR CHANGE IN DOCTORAL DEGREE PROGRAM

11. Other requirements not covered above

II. RATIONALE FOR CHANGE(S)
If the rationale involves accreditation requirements, please include specific references to those requirements.

The discipline of entomology, similar to all agricultural and biological sciences, has evolved significantly during the past two decades and continues to undergo rapid changes. The core curricula for the MS and PhD has not been modified for 15 years. To increase flexibility in the core curricula, the graduate faculty in Entomology request responsibility for the PhD and MS core curricula for the Graduate Program in Entomology.

Signatures of Approval:

[Signature]
Department Chair

[Signature]
Dean of the College

[Signature]
*Undergraduate Council

[Signature]
*University Studies

[Signature]
*Graduate Council

[Signature]
*Academic Council for the Medical Center

[Signature]
*Senate Council

*If applicable, as provided by the Rules of the University Senate

[Signature]
August 27, 2004

[Signature]
Date

[Signature]
Date

[Signature]
Date

[Signature]
Date

[Signature]
Date

[Signature]
Date of Notice to Univ, Senate

ACTION OTHER THAN APPROVAL
UNIVERSITY OF KENTUCKY
REQUEST FOR CHANGE IN MASTERS DEGREE PROGRAM

Program: Entomology

Department/Division: Entomology

College: Agriculture

Degree Title (Old): Masters of Science

Major (New): Masters of Science

CIP Code: HEGIS Code:

Accrediting Agency (if applicable):

I. CHANGE(S) IN PROGRAM REQUIREMENTS

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1. Number of transfer credits allowed
   (Graduate School limit: 9 hours or 25% of coursework)

   No Change

2. Residence requirement (if applicable)

   No Change

3. Language(s) and/or skill(s) required

   No Change

4. Termination criteria

   No Change

5. Plan A requirements*

   Will become responsibility of faculty in Graduate Program in Entomology

   Attached

6. Plan B requirements*

   Will become responsibility of faculty in Graduate Program in Entomology

   Attached

7. Distribution of course levels required
   (At least one half must be at 600+ level & two thirds must be in organized courses)

   No Change

8. Required courses (if applicable)

   Will become responsibility of faculty in Graduate Program in Entomology

   Attached

9. Required distribution of courses within program
   (if applicable)

   Will become responsibility of faculty in Graduate Program in Entomology

   Attached

10. Final examination requirements

   No Change

* If there is only one plan for the degree, plans involving a thesis (or the equivalent in studio work, etc.) should be discussed under Plan A and those not involving a thesis should be discussed under Plan B.

NOTE: To the extent that proposed changes in 5, 6 or 8 above involve the addition of courses in other programs, please submit correspondence from the other program(s) pertaining to the availability of such courses to your students.
II. RATIONALE FOR CHANGE(S)
If the rationale involves accreditation requirements, please include specific references to those requirements. The discipline of entomology, similar to all agricultural and biological sciences, has evolved significantly during the past two decades and continues to undergo rapid changes. The core curricula for the MS and PhD has not been modified for 15 years. To increase flexibility in the core curricula, the graduate faculty in Entomology request responsibility for the PhD and MS core curricula for the Graduate Program in Entomology.

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*If applicable, as provided by the Rules of the University Senate

August 27, 2004
Date

Date

Date

Date

Date

Date of Notice to University Senate

ACTION OTHER THAN APPROVAL
Proposed Changes in description of graduate program in ENTOMOLOGY

The Department of Entomology offers graduate work leading to the Master of Science and the Doctor of Philosophy degrees. Individual graduate programs are planned by students in consultation with their advisor and the Director of Graduate Studies. Study and research are available in various areas of entomology including applied entomology, behavior, biological control, host plant resistance, insect biology, ecology, genetics, molecular biology, immature insects, medical and veterinary entomology, biochemistry, physiology, taxonomy, araneology, and acarology. Plans A and B are offered for the master's degree.

Admission Requirements

Admission to the Graduate program in Entomology is based on the recommendation of the Entomology Graduate Program Committee. Minimum admission requirements include an overall undergraduate grade point average of 3.0 and an overall graduate grade point average of 3.25. Applicants whose native language is English must score at least 1050 on the combined verbal and quantitative portions of the Graduate Record Examination (GRE) general test. Those whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum paper score of 550 or a computer score of 213 (the computer score will be converted to a paper score). They must also have a score of 550 on the quantitative portion of the GRE. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimal requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the students to do graduate work. Admission to the Graduate Program in Entomology does NOT automatically guarantee financial assistance to the student.

Degree Requirements

During their first year of graduate studies, M.S. (Plan A) and Ph.D. students are required to prepare a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required for M.S. and Ph.D. students. August graduates will present their seminar in the spring. M.S. students using the Plan B option will be required to provide a detailed outline of their practicum to their Advisory Committee. The practicum must be a minimum of 3 credit hours (maximum of 6 credit hours) and may consist of library research, special problems, internships, etc., as agreed upon by the student and major professor, and approved by the Advisory Committee.

M.S. and Ph.D. students will be required to post a formal notification of scheduled examinations on the notice board in the main departmental office two weeks prior to the examination date. See Departmental website for description of core courses.
GRADUATE COURSES

ENT 530 INTEGRATED PEST MANAGEMENT (3)

ENT 561 MEDICAL ENTOMOLOGY (SAME AS BIO 561) (4)

ENT 564 INSECT TAXONOMY (SAME AS BIO 564) (4)

ENT 567 APPLICATIONS OF GENETICS (SAME AS BIO 567) (4)

ENT 568 INSECT BEHAVIOR (SAME AS BIO 568) (3)

ENT 574 ADVANCED APPLIED ENTOMOLOGY (4)

ENT 605 EMPIRICAL METHODS IN ECOLOGY AND EVOLUTION (SAME AS BIO/FOR 605) (2)

ENT 606 CONCEPTUAL METHODS IN ECOLOGY AND EVOLUTION (SAME AS BIO/FOR 606) (3)

ENT 607 ADVANCED EVOLUTION (SAME AS BIO/FOR 607) (2)

ENT 608 BEHAVIORAL ECOLOGY AND LIFE HISTORIES (SAME AS BIO/FOR 608) (2)

ENT 609 POPULATION AND COMMUNITY ECOLOGY (SAME AS BIO/FOR 609) (2)

ENT 613 BEHAVIORAL ECOLOGY AND COMPARATIVE NEUROBIOLOGY (SAME AS BIO/PSY/PGY/ANA 613) (2)

ENT 614 TECHNIQUES IN BEHAVIORAL ECOLOGY AND COMPARATIVE NEUROBIOLOGY (SAME AS BIO/PSY/PGY/ANA 614) (2)

ENT 625 INSECT-PLANT RELATIONSHIPS (SAME AS BIO 625) (3)

ENT 635 INSECT PHYSIOLOGY AND INTERNAL MORPHOLOGY (SAME AS BIO 635) (4)

ENT 660 IMMATURE INSECTS (3)

ENT 665 INSECT ECOLOGY (SAME AS BIO 665) (3)

ENT 680 BIOLOGICAL CONTROL (3)
ENT 684 PHYLOGENETIC SYSTEMATICS (SAME AS BIO 684) (3)
ENT 695 SPECIAL TOPICS IN ENTOMOLOGY (SUBTITLE REQUIRED) (3)
ENT 748 MASTER’S THESIS RESEARCH (0)
ENT 749 DISSERTATION RESEARCH (0)
ENT 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE (1-6)
ENT 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE (0-12)
ENT 770 ENTOMOLOGICAL SEMINAR (1)
ENT 780 SPECIAL PROBLEMS IN ENTOMOLOGY AND ACAROLOGY (2-3)
ENT 790 RESEARCH IN ENTOMOLOGY AND ACAROLOGY (1-6)
ENTOMOLOGY

The Department of Entomology offers graduate work leading to the Master of Science and the Doctor of Philosophy degrees. Individual graduate programs are planned by students in consultation with their advisor and the Director of Graduate Studies. Study and research are available in various areas of entomology including applied entomology, behavior, biological control, host plant resistance, insect biology, ecology, genetics, molecular biology, immature insects, medical and veterinary entomology, biochemistry, physiology, taxonomy, araneology, and acarology. Plans A and B are offered for the master's degree.

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Admission to the Graduate program in Entomology is based on the recommendation of the Entomology Graduate Program Committee. Minimum admission requirements include an overall undergraduate grade point average of 3.0 and an overall graduate grade point average of 3.25. Applicants whose native language is English must score at least 1050 on the combined verbal and quantitative portions of the Graduate Record Examination (GRE) general test. Those whose native language is not English must have a Test of English as a Foreign Language (TOEFL) with a minimum paper score of 550 or a computer score of 213 (the computer score will be converted to a paper score). They must also have a score of 550 on the quantitative portion of the GRE. The Program requires three letters of recommendation. Meeting the minimum requirements does not guarantee admission. These minimal requirements may be waived in exceptional cases if sufficient additional evidence is presented regarding the ability of the students to do graduate work. Admission to the Graduate Program in Entomology does NOT automatically guarantee financial assistance to the student.

Degree Requirements

During their first year of graduate studies, M.S. (Plan A) and Ph.D. students are required to prepare a formal written research proposal encompassing a thorough literature review, clear statement of objectives, and materials and methods of the project. A research proposal seminar will be presented to the Department upon completion of the written research proposal. An exit seminar, usually presented during the last semester of the student's tenure, is required for M.S. and Ph.D. students. August graduates will present their seminar in the spring. M.S. students using the Plan B option will be required to provide a detailed outline of their practicum to their Advisory Committee. The practicum must be a minimum of 3 credit hours (maximum of 6 credit hours) and may
consist of library research, special problems, internships, etc., as agreed upon by the student and major professor, and approved by the Advisory Committee.

M.S. and Ph.D. students will be required to post a formal notification of scheduled examinations on the notice board in the main departmental office two weeks prior to the examination date.

All M.S. and Ph.D. students must satisfy the following core course requirements:

1. An undergraduate course in general entomology. Students who have not had such a course must take ENT 300.

2. ENT 564 Insect Taxonomy

3. STA 570 Basic Statistical Analysis

M.S. candidates using the Plan A option must take a minimum of one course from two of the following categories. M.S. candidates using the Plan B option and Ph.D. candidates must take a minimum of one course from all three groups.

1. ENT 568 Insect Behavior
   or
   ENT 625 Insect-Plant Relationships
   or
   ENT 665 Insect Ecology

2. ENT 567 Applications of Genetics
   or
   ENT 635 Insect Physiology and Internal Morphology

3. ENT 530 Integrated Pest Management
   or
   ENT 574 Advanced Applied Entomology
   or
   ENT 680 Biological Control of Insects

In all cases, an equivalent graduate level course from another institution is acceptable upon approval of the Advisory Committee. Such approval will not decrease the minimum number of credits required, but simply will permit the student to take other courses. In addition, each M.S. candidate must take two semesters of ENT 770, Entomological Seminar, (or approved equivalent seminars) and Ph.D. candidates must take four semesters of approved seminars.

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