

Graduate Handbook

Louisiana State University

Department of Entomology

Revised - Spring 2006



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INTRODUCTION

The purpose of this handbook is to provide current and prospective graduate students with Departmental and University policies regarding Master's and Doctoral degrees in Entomology at LSU. Each student is responsible for familiarizing his- or herself with these guidelines and graduate school regulations to facilitate an orderly and successful progression through the graduate program.

ADMISSION REQUIREMENTS

Admission to the graduate program in Entomology is a three step process beginning with application to the Graduate School. Application for admission to the Graduate School can be made online: <http://gradlsu.gs.lsu.edu>. If you cannot apply through the Internet, forms may be obtained directly from the Graduate School, 131 D. Boyd Hall, LSU, Baton Rouge, LA 70803. Application should include one set of official transcripts for all collegiate course work, official verbal and quantitative GRE scores, TOEFL scores (if degree is from a non-English curriculum), and payment of a non-refundable fee set by the Graduate School. After application to the Graduate School is complete, the forms are forwarded to the Entomology Department for review. In addition to materials provided by the Graduate School, the department requires three letters of recommendation that should be sent directly to Department of Entomology, 404 Life Sciences Bldg., LSU, Baton Rouge, LA 70803-1710. Students are advised to make contact with their prospective Major Advisor early in the application process. Students are expected to have a minimum of a 3.0 (4.0 scale) undergraduate GPA and a minimum of 1000 combined verbal and quantitative GRE score for admission. Exceptions are made if high scores in one category compensate for low scores in the other. The decision for acceptance is made by the department Admissions Committee. If accepted, the application is forwarded to the Graduate School for final acceptance and processing.

ASSISTANTSHIPS AND FELLOWSHIPS

Students pursuing an M.S. or Ph.D. degree are encouraged to apply for an assistantship. Students are not accepted into the department without verification of support. Graduate research assistantships are awarded to qualified students on a competitive basis and are half-time (i.e., 20 hours/week) research appointments. Students must maintain a satisfactory level of performance to remain on an assistantship. This consists of maintaining at least a 3.0 (4.0 scale) grade point average each semester, and satisfactory progress on research. The expected periods of time for students to complete the M.S. and Ph. D. degrees are 2 ½ and 4 years, respectively. Departmental assistantships are generally not extended beyond these time periods. Stipend amounts for graduate students vary depending on the source of funds and possible supplements (i.e. from the Graduate School or grants). Full tuition waivers for graduate students will be implemented by Fall 2005.

LSU offers several highly competitive research fellowships and assistantships for outstanding M.S. and Ph.D. students. These are administered through the Department, Graduate School and the College of Agriculture. Most of these require that applications be submitted by mid-February for the following Fall semester.

COURSE LOADS AND CONTINUOUS REGISTRATION

The minimum course load to maintain a full-time graduate assistantship is 9 hours in the Fall and Spring, and 6 hours in the summer. To ensure full-time status, we recommend that graduate assistants take 12 hours a semester and 9 hours in the summer, including the appropriate number of thesis or dissertation hours. Students must be registered for a minimum of 1 credit hour during the semester of the Master's final exam or the Doctoral general exam. Doctoral candidates must maintain continuous registration for a

minimum of 3 hours each semester (excluding summer) from the completion of the general examination to the end of the semester in which they graduate. Students with graduate assistantships are expected to devote the majority of their time to their graduate studies and are strongly discouraged from seeking outside employment.

REQUIREMENTS FOR THE MASTER'S DEGREE

Advisory Committee - The Advisory Committee consists of at least 3 members of the Graduate Faculty, at least one of whom is a full member of the Graduate Faculty. The Major Professor is the chair of the committee and the other members are chosen by the student in consultation with the Major Professor. If there is an external minor, one committee member must represent the minor department. The committee should be established by the end of the second semester of the student's graduate career.

Credit Hours and Course Work- The minimum requirement for a Master's degree is 30 hours of graduate work, including at least 24 hours of course work and 6 hours of thesis research. At least 15 hours of course work must be at or above 7000 level, which includes the 6 hours of research. The Master's degree must be completed within five years from entrance into the degree program. Specific departmental course requirements include:

<u>Required Courses:</u>	<u>Credits:</u>
4005 Insect Taxonomy	4
7001 General Entomology	4
7007 Seminar in Entomology	1

Additional courses:

Students may focus in one of the three concentration areas emphasized in the department. Table 1 outlines courses relevant to each concentration area.

Thesis Research Proposal and Examination- A Master's student is required to have a research proposal and a plan of study accepted by his or her Graduate Advisory Committee by the end of the second semester of study. Guidelines for the proposal are given in Appendix A. A list of completed courses and those proposed to meet departmental requirements should also be prepared. A meeting of the Advisory Committee should be convened by the student to discuss his/her proposal and course work.

The Thesis - The thesis must follow the guidelines for *Preparation of Theses and Dissertations* available online at <<http://gradschool.lsu.edu/etp>>. As long as the guidelines are met, the thesis may be in a form suitable for publication in a refereed journal or other suitable medium. The thesis should be delivered to the Advisory Committee members no later than 2 weeks prior to the defense examination. If possible, a departmental seminar should be scheduled immediately preceding the defense.

Thesis Defense - Master's students are required to pass a comprehensive oral examination. The scope of this examination includes, but is not confined to, the student's thesis research. The examination is evaluated on a pass/fail basis; failure is defined as more than one dissenting vote by committee members. Upon a majority vote, a student not passing may be re-examined. Failure upon reexamination will result in termination of the student's enrollment as a graduate student in entomology. A series of forms with deadlines are required and a schedule of important dates is published each semester by the Graduate School. If a student fails the defense and is to be re-examined, forms recording the failure are to be turned in to the Graduate School just as forms recording a successful defense are turned in. The graduate student is responsible for making sure the Graduate School receives these forms on time. See a later section in this handbook, Schedule of Academic Events/Master's Degree, for a list of required forms. Turn in voucher specimens (see page 11) to

the Louisiana State Arthropod Museum by the time the thesis is turned in.

TABLE 1
ENTOMOLOGY GRADUATE “Concentration Courses”

IPM	UPM	Biodiversity
4006 Fundamentals of Applied Entomology	4001 Household/structural	4015 Conservation Biology
4012 Fundamentals of Horticultural Entomology	4006 Fundamentals of Applied Entomology	4040 Insect Ecology
4018 Forest Insects and Diseases	4007 Forensic Entomology	4100 Insect Behavior
4040 Insect Ecology	4011 Biology and Management of the Honey Bee	7002 Plant Resistance to Arthropods
4100 Insect Behavior	4100 Insect Behavior	7005 Classification of Immature Forms of Insects
7002 Plant Resistance to Arthropods	7003 Medical/Veterinary Entomology	7040 <i>Advanced Insect Ecology</i>
7005 Classification of Immature Forms of Insects	7005 Classification of Immature Forms of Insects	7080 Population Ecology
7006 Advanced IPM	7006 Advanced IPM	BIOL 7083 Community Ecology
7015 Insect Pathology and Biological Control	7015 Insect Pathology and Biological Control	7946 Molecular evolution
7017 Introduction to Insecticide Toxicology	7017 Introduction to Insecticide Toxicology	7979 Tropical Ecology

REQUIREMENTS FOR THE PH.D. DEGREE

The Doctor of Philosophy (Ph.D.) is the highest earned degree offered by universities. It is conferred only for work of distinction in which the student displays decided powers of original scholarship and only in recognition of marked ability and achievement. The degree will not be granted merely in recognition of faithful performance of prescribed work. The basic requirements are: 1) a student must exhibit unmistakable evidence of mastery of a broad major field (evidenced by passing the general exam); and 2) a student must prove ability to complete a significant program of original research by preparing a dissertation embodying creative scholarship and by passing a rigorous final examination. The dissertation must add to the sum of existing knowledge and give evidence of considerable literary skill.

Advisory Committee - The Advisory Committee initially consists of at least 4 members of the Graduate Faculty, including the Major Advisor, who acts as the chair. At least 2 members must be from the Entomology Department, with at least 1 of these being a full member of the Graduate Faculty. The remaining 2 members may be from Entomology or another department, with 1 being a full member of the Graduate Faculty. If the student declares a minor, 1 committee member must be from the minor department. The Dean of the Graduate School appoints an additional member of the Graduate Faculty to serve on Doctoral general and final examination committees enlarging the committee to 5 members at those times. The committee should be established by the end of the second semester of the student's graduate career.

Credit Hours and Course Work- A Doctoral program must be the equivalent of 3 years of full-time study beyond the baccalaureate degree. It is the responsibility of the Advisory Committee to determine the total number and types of courses to be taken to suite the needs of each student. Minimum requirements for the Ph.D. degree include:

- 1) Fundamental and Required Courses and course work hours listed under Requirements for the M.S. Degree (24 hours of course work with at least 15 hours at or above 7000 level);
- 2) Additional Course Work (15 hours selected by the student and his/her Advisory Committee, which should include 3 hours of special topics courses and may include core courses, seminars, and additional special topics classes, but may not include transfer credits, independent study, or dissertation research);
- 3) 7007 Seminar in Entomology (1 hour required; there is a mandatory exit seminar which preferably should be presented within 1 week of the dissertation defense and may or may not be a part of ENTM 7007)
- 4) ENTM 7010: Teaching Practicum (1 hour required, maximum of 3 hours for credit); and,
- 5) ENTM 9000: Dissertation Research (a minimum of 9 hours).

For incoming students without a master's degree, this translates into 41 hours of coursework plus 9 hours of dissertation research. Students with a master's degree in entomology who transfer courses to cover number 1) above are required to take 17 additional hours of coursework plus 9 hours of dissertation research. Credit will only be given for courses at or above the 4000 level. The doctorate must be completed within seven years from the time a student is classified as a Doctoral student (Grad 7).

Dissertation Research Proposal and Program of Study Review - By the end of the first year, students are required to have a research proposal and Program of Study accepted by his or her Graduate Advisory Committee. Guidelines for the proposal are given in Appendix A. A list of completed courses and those proposed to meet departmental requirements should also be prepared. A meeting of the Advisory Committee should be convened by the student to discuss their proposal and course work. One full academic year of continuous residence (2 consecutive semesters - Fall and Spring or Spring and Fall) as a full-time graduate student must be earned at LSU after the Program of Study is filed with the Graduate School to obtain a Ph.D.

degree (this ensures that students have been fully immersed in their research for at least 1 year).

General Examination - The general exam is oral, but may also contain written questions from individual committee members. The exam is taken after most course work is completed, normally after 2 full years of graduate study. Entomology requires that the exam be taken by the end of the 3rd calendar year of classification as a Doctoral student. Examinations may not be scheduled between semesters and students must be registered for 1-3 hours of credit during the semester of the exam. A request for the exam must be submitted to the Graduate School at least 3 weeks prior to the proposed date. It is the student's responsibility to complete this form, obtain the Major Professor's signature, and submit the form to the Academic Assistant in Entomology. The Graduate School will appoint an at-large Dean's representative to the examining committee. To pass the exam, there cannot be more than one dissenting vote. There are 3 possible outcomes if the general examination is failed: 1) the exam is repeated at a date agreed upon by the committee; 2) the student is directed toward completion of a Master's Degree if applicable; or 3) the student is dropped from the program. If a student fails and is to be re-examined, forms recording the failure are to be turned into the Graduate School. The general exam should be regarded as the culmination of a student's course work and their remaining time should be devoted to concentrated work on the dissertation. One academic year must elapse between the general and final examinations. Doctoral candidates must maintain continuous registration for a minimum of 3 hours each semester (excluding summer) from the completion of the general examination to the end of the semester in which they graduate.

The Dissertation - The dissertation must demonstrate a mastery of research techniques, ability to perform original and independent research, and skill in formulating conclusions that enlarge upon or modify accepted ideas. The form of the dissertation must follow the guidelines for *Preparation of Theses and Dissertations* available online at <<http://gradschool.lsu.edu/etp>>. As long as the guidelines are met, the dissertation may be in a form suitable for publication in a refereed medium.

Final Examination and Dissertation Defense - Early in the semester a student plans to graduate, the Graduate School must be notified of the student's intention to complete degree requirements. A schedule of important dates and deadlines produced by the Graduate School each semester should be consulted. Paperwork for the final examination must be submitted to the Graduate School at least 3 weeks prior to the scheduled date and by current semester deadlines for degree candidates. It is the student's responsibility to complete and submit this form to the Academic Assistant in Entomology. Exams cannot be scheduled between semesters. The dissertation should be delivered to the Advisory committee members a minimum of 2 weeks prior to the final examination date. If possible, a departmental seminar should be scheduled immediately preceding the defense. The final is an oral defense and is concerned primarily with dissertation research and related problems. To pass, there cannot be more than one dissenting vote. Upon a majority vote, a student not passing may be re-examined. Failure upon reexamination will result in termination of the student's enrollment as a graduate student in entomology. A series of forms with deadlines are required and a schedule of important dates is published each semester by the Graduate School. If a student fails the defense and is to be re-examined, forms recording the failure are to be turned in to the Graduate School. The graduate student is responsible for making sure the Graduate School receives these forms on time. See Schedule of Academic Events/Doctoral Degree (pg. 8) for a list of required forms. Turn in voucher specimens (see page 11) to the Louisiana State Arthropod Museum by the time the dissertation is turned in.

Teaching Requirements - Each Ph. D. candidate is required to assist in teaching a course for a minimum of one semester. They are required to register for ENTM 7010: Teaching Practicum (1-3 credit hours). Scheduling student teaching is the responsibility of the student and his/her advisor. The teaching can be associated with any course that the student is deemed qualified to teach by his/her Major Advisor and the instructor of the course.

MINOR IN ENTOMOLOGY REQUIREMENTS

Departmental requirements for a minor in Entomology consists of 10 hours of entomology course work at or above 4000 level taken at LSU, including at least one hour at or above 7000 level (such as a seminar or special topics class).

SCHEDULE OF ACADEMIC EVENTS

See the Entomology Department Academic Assistant to obtain forms and cards listed below in bold to be submitted to the Graduate School. Alternatively, the student may download most Graduate School forms from the LSU Graduate School website <<http://gradschool.lsu.edu/etp>> by first selecting Graduate Records and then Forms.

Master's Degree

1. Appointment of Major Professor
When: Before or during the first semester
Initiate through: Department Head
2. Nomination of Advisory Committee (at least 3 members)
When: By the end of the second semester
Initiate through: Major Professor
3. Formulation of **Plan of Study and Thesis Research** (see Appendix A). Meet with Advisory Committee to discuss proposal and course work. Put a copy in your file in the Academic Assistant's office.
When: By the end of the second semester
Initiate through: Major Professor
Approval by: Advisory Committee
4. Submit **Application for Master's Degree** form and **Diploma Page** to Graduate School.
When: Semester of Graduation. Consult Graduate Calendar for deadlines.
Initiate through: Major Professor
Approval by: Major Professor, Department Head, Dean of Graduate School
5. Schedule Master's Examination
When: At least three weeks before examination date. Consult graduate calendar for deadline.
Initiate through: Major Professor using Graduate School Form **Request for Master's Examination**. Give each committee member and Academic Assistant a copy.
Approval by: Advisory Committee, Department Head, and Dean of Graduate School
6. Thesis submission to Advisory Committee
When: At least two weeks before the comprehensive examination.
7. Conduct Master's Examination and Thesis Defense Meeting.
8. Submit Approved **Master's Examination and Thesis Report** (prepared and sent over by the Graduate School along with degree cards after you filed your **Request for Master's Examination**) and **Thesis Release Form** permitting Graduate School to photocopy your thesis on request.
Approval by: Advisory Committee, Dean of the Graduate School

9. Submission of electronic thesis to Graduate School.
When: See Graduate School calendar for deadline

Doctoral Degree

1. Appointment of Major Professor
When: Before or during first semester
Initiate through: Department Head
2. Nomination of Advisory Committee (at least 4 members)
When: By the end of the second semester
Initiate through: Major Professor
3. Formulation of **Program of Study and Dissertation Research** (see Appendix A). Meet with Advisory Committee to discuss proposal and course work. Complete **Program of Study for the Doctoral Degree** (2 originals on blue paper) and submit to Graduate School. File a copy in the Academic Assistant's office in the Entomology Department.
When: By the end of the first year
Approved by: Entomology Dept. Head (Minor Dept. Head if applicable), Dean of Graduate School
4. Submit **Request for Doctoral General Examination** form to the Graduate School. If there is a change in the Program of Study, submit **Request for Change in Program of Study for Doctoral Degree** at the same time.
When: A full academic year before expected date of final examination (normally toward close of second year of full-time graduate study). Most course work must have been completed. **Request for Doctoral General Examination** form should be submitted at least three weeks before examination date or by Graduate Calendar deadline, whichever is earlier.
Initiate through: Major Professor
Approval by: Advisory Committee, Department Head, Dean of Graduate School
5. Admission to Candidacy. Submit **Committee Examination Report** cards (sent to the Department by Graduate School after receiving **Request for Doctoral General Examination** form) to the Graduate School.
When: After passing general examination
Approved by: Advisory Committee, Dean of Graduate School
6. Submit **Doctoral Application for Degree** form and **Diploma Page** to the Graduate School
When: Semester of Graduation. Consult Graduate Calendar for deadlines.
Approval by: Major Professor
7. Submit **Request for Doctoral Final Examination** to the Graduate School
When: At least three weeks prior to final examination date. Last date of final examination for a given semester is indicated in the Graduate Calendar. If changes in the Program of Study have been made, **Request for Change in Program of Study for Doctoral Degree** should be submitted to the Graduate School prior to graduation.
Initiate through: Major Professor
Approval by: Advisory Committee, Dept. Head, Dean of Graduate School

8. Submission of dissertation to Advisory Committee
When: At least two weeks before final examination
Initiated through: Major Professor

9. Final Examination
When: Final date for taking the Final Examination in a given semester is indicated in the Graduate Calendar. After the Final Examination, submit the approved **Doctoral Examination and Dissertation Report** (prepared and sent over by the Graduate School along with degree cards after submitting your **Request for Doctoral Final Examination**) to the Graduate School.
Approved by: Advisory Committee, Dept. Head, and Dean of Graduate School

10. Electronic submission of dissertation and signed **Publishing Agreement Form** (obtained from Graduate School) to Graduate School.
When: See Graduate School Calendar for details.

AWARDS

The Department, University, and Entomological Society of America give out several awards to graduate students on a competitive basis. An overview is given below.

Department of Entomology Awards:

L. D. Newsom Graduate Student Award - This award of \$1000 is given to individuals who exhibit excellence in academic achievement and graduate research. One award is available for nominees in the M.S. program and one award for a Ph.D. candidate. Nominations are due January 30th after a notice is circulated in the department by the Student Awards Committee with guidelines for nomination packets.

LSU Campus Wide Award:

Distinguished Dissertation Award in Science and Engineering - A nominee is selected from within the Entomology Department by the Student Awards Committee and forwarded to the College of Agriculture (COA). Nominations are due at the COA in early December. The COA selects one nominee which is submitted for competition at the university level.

Entomological Society of America Awards:

a) John Henry Comstock Award - This award, given by the National Office of the ESA to promote interest in the science of entomology at the graduate level and to stimulate interest in attending the national conference, consists of an all-expenses-paid trip to the ESA national conference, plus \$100 cash and a certificate. It is given to one graduate student from each Branch. Each Entomology Department in the Southeastern Branch nominates one Ph.D. student. Each nomination should contain a detailed resume prepared according to ESA requirements submitted by departments to the SEB-ESA Awards Committee. Nomination packets should be given to the departmental Student Awards Committee chair and this committee selects the department nominee. The departmental nominee's packet is due at the SEB on July 1st.

b) Kirby L. Hays Award - This award is sponsored by the Southeastern Branch and is given each year to an outstanding Master's student. The recipient is given \$250 and a plaque at the Annual Branch Meeting. Each

Department nominates one student. Each nomination should contain a detailed resume prepared according to ESA requirements. The Student Awards Committee selects the departmental nominee after a call for nominations around July 1st and submits the nominee to the SEB by September 1st.

c) Robert T. Gast Award and Southeastern Branch Student Award - These two awards are given annually to a Ph.D. and M.S. student, respectively, presenting the best research paper as judged by both oral presentation and written work. The Gast Award recipient is given \$500 and the Southeastern Branch Student Award recipient is given \$250. Plaques are presented to both winners at the Annual Branch Meeting. Runners-up for these awards each receive \$100 and a plaque. The deadline for nominations is coincident with the deadline for receipt of titles and abstracts for student paper competitions at the SEB Annual Meeting, usually September or October. The paper submitted for consideration cannot have been submitted for publication prior to this deadline.

d) Southeastern Branch Outstanding Student Display Presentation Award - This award is given annually to the student presenting the best research paper in a display format based on both the presentation and a written summary. The recipient is given \$100 and a plaque at the Annual Branch Meeting. The deadline is announced annually and materials are sent to the SEB.

Other Awards:

Students are encouraged to compete for travel and research awards from various sources on campus such as the LSU Sigma Xi Chapter and the Graduate School and nationally from federal agencies (e.g. National Science Foundation's Dissertation Improvement Grants, EPA Star Fellowships), professional societies (e.g. Sigma Xi, American Women in Science), private foundations (e.g., The Nature Conservancy), and industry.

ENTOMOLOGY CLUB

The Entomology Club is composed of graduate students, associates, faculty, and others interested in entomological activities. Meetings are generally held on an 'as needed' basis. The club functions to give support to new students in the department, to promote the department, and to generate an overall interest in entomology by making the public aware of entomological work conducted at LSU. The club supports an outreach program to schools in the area by having members make classroom presentations on various aspects of entomology and encouraging science projects of an entomological nature. Social activities sponsored by the club include a fall cookout, spring crawfish boil, and other events. The club also provides input on various departmental issues through student assignments to committees. Income is generated through sales of shirts, hats, and honey. Officers (president, vice president, secretary and treasurer) are elected each year at the start of the Fall semester.

VOUCHER SPECIMENS

All students are **required** to submit voucher specimens to the Curator of the Louisiana State Arthropod Museum (LSAM) documenting species studied in their theses or dissertation research. A voucher specimen is any specimen that is the subject of study and is retained as a reference. For optimal utility, voucher specimens should be housed in a museum that can properly preserve, curate, and make them available for further study. They should be part of a publicly accessible scientific reference collection. Guidelines for voucher specimens:

- A statement indicating where the voucher specimens are deposited is required in the theses or dissertation (e.g., voucher specimens are deposited in the LSAM);
- A series of 10 specimens of each species is suggested, but a single pair, ♀ and ♂, is adequate if the

- species is a common economic pest;
- Specimens from different localities should be included if site to site variation is an important aspect of the research;
- Specimens must be properly preserved and labeled (if there are questions about procedures, please ask LSAM personnel);
- Label paper should be 100% rag, 36 lb. ledger (this paper and instructions for computer generated labels are available in the LSAM);
- Each specimen requires three labels placed on the pin in the following order: data label, determination label, and voucher label (see below);
- Maximum size of all labels is 10 x 20 mm;
- If specimens are preserved in alcohol or on slides the same information must be placed with them.

Data labels should read as follows (if all the information will not fit on one label, use two):

Country: State: Parish or County	Ex.	USA: LA: W. Feliciana Par.
Specific locality & Lat./Long.		Feliciana Preserve
Date (Day-Month-Year)		30°47'N, 91°15'W
(month in roman numerals)		30-xii-2003 C.E. Carlton
Collectors name (both initials)		Mesophytic Forest/Berlese
Ecological Data &/or Collecting Method		

Determination labels should read:

Genus species Author	Ex.	<i>Batrisodes prowelli</i> Carlton
Det. "name of identifier & year"		Det. C.E. Carlton 2004

Voucher labels should read:

VOUCHER SPECIMEN	Ex.	VOUCHER SPECIMEN
Student's name & year of graduation		J. D. Smith 2004
LSU thesis or dissertation		LSU MS Thesis

APPENDIX A
GUIDE FOR THESES AND DISSERTATION RESEARCH PROPOSAL
AND PLAN OF STUDY

Department of Entomology, Louisiana State University
Baton Rouge, Louisiana

(Date)

TITLE: A brief, clear, specific designation of the subject of the research. The title, used by itself, should give a good indication of the project.

OBJECTIVES: A clear, complete, and logically arranged statement of specific objectives of the project. If several objectives are proposed, they must be closely related. List them as 1, 2, 3, etc.

JUSTIFICATION: Should present the importance of the problem.

PREVIOUS WORK AND PRESENT OUTLOOK: A brief summary covering pertinent previous research on the problem, citing important and recent publications from other research institutions, as well as your own institution, the status of current research, and additional information needed, to which the project is expected to contribute. This review will help to determine work already accomplished.

PROCEDURE: A statement of essential work plans and methods to be used to attain each of the stated objectives. The procedure should correspond with objectives, and follow the same order. Phases of the work to be undertaken should be designated. The location of work and facilities and equipment needed and available should be indicated. Wherever appropriate, procedures should provide data suitable for statistical analysis and design of the experiments should be indicated.

PROBABLE DURATION: An estimate of the maximum time likely to be required to complete research and publish results.

INSTITUTIONAL UNITS INVOLVED: List each unit of the institutions contributing essential services or facilities. Responsibilities of each should be indicated.

LITERATURE CITED: List important and recent publications involving this field of work.

Appendix B
COURSES AND COURSE SCHEDULES

Course No.	Semester offered	Credit hours	Title	Professor
ENTM 2001	F	3	Insects in the Environment	Davis/Hooper-Bui/Stout
ENTM 2050	F-E	4	Introduction to Pest Management	Johnson
ENTM 3000	Su	3	Pest Management Internship	Henderson
ENTM 3002	F	3	Pest Management Seminar	Faculty
ENTM 4001	F-E	3	Household and Structural Entomology	Henderson
ENTM 4002	F-O	3	Insect Biology	Ottea
ENTM 4005	S-O	4	Insect Taxonomy	Carlton
ENTM 4006	S	3	Fundamentals of Applied Entomology	Reagan
ENTM 4007	S-O	3	Forensic Entomology	Kramer
ENTM 4011	S-E	3	Biology and Management of the Honey Bee	Adjunct Faculty
ENTM 4012	S	3	Fundamentals of Horticultural Entomology	Story
ENTM 4015	F	3	Conservation Biology	Prowell
ENTM 4016	S-E	3	Introduction to Insect Physiology	Faculty
ENTM 4018	F	4	Forest Insects and Diseases	Allison/Aime
ENTM 4040	S	3	Insect Ecology	Hooper-Bui
ENTM 4099	F, S, Su	1-3	Undergraduate Entomology Research	Faculty
ENTM 4100	F-O	3	Insect Behavior	Henderson
ENTM 4199	V	1-3	Special Topics in Entomology	Faculty
ENTM 7001	F	4	General Entomology	Carlton/Ottea
ENTM 7002	F-O	4	Plant Resistance to Arthropods	Stout
ENTM 7003	F-O	4	Adv. Medical/Veterinary Entomology	Foil/Kramer
ENTM 7005	S-O	3	Classification of Immature Forms of Insects	Story
ENTM 7006	F-E	3	Advanced IPM	Huang
ENTM 7007	F, S	1	Seminar in Entomology	Faculty
ENTM 7008	F, S, Su	1-3	Special Topics in Entomology	Faculty
ENTM 7010	F, S	1-3	Teaching Practicum	Faculty
ENTM 7015	S-E	4	Insect Pathology and Biological Control	Johnson
ENTM 7017	F-E	3	Introduction to Insecticide Toxicology	Ottea
ENTM 7080	F, S	3	Population Ecology	Biol. Sciences Faculty
ENTM 7600	V	1-3	Extension Practicum	Hummel/Ring
ENTM 7946	F, S	1	Seminar in Molecular Evolution	Biol. Sciences Faculty
ENTM 7979	Su	1-8	Tropical Biology (OTS)	Faculty
ENTM 8000	F, S, Su	1-12	Thesis Research	Faculty
ENTM 8900	F, S, Su	1-4	Research Problems	Faculty
ENTM 9000	F, S, Su	1-12	Dissertation Research	Faculty

F= Fall, S= Spring, Su= Summer, V= Various.

O= Odd numbered years, E= Even numbered years.

OTS = Organization for Tropical Studies.