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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 in Entomology.

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 at http://gradlsu.gs.lsu.edu. The application packet 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),
- three letters of recommendation, and
- payment of a non-refundable fee set by the Graduate School.

After the completed application is received and processed by the Graduate School, it is forwarded to the Entomology Department for review by the Admissions Committee. The Department requires students to have a minimum GPA of 3.0 (4.0 scale) for their undergraduate coursework, and a minimum GRE score of 297 (combined verbal and quantitative) for admission. Exceptions are made if high scores in one category compensate for low scores in the other. Finally, students are advised to make contact with their prospective Major Advisor early in the admission process because they will not be accepted into the Department without verification of financial support.

If the student is accepted by the Department for admission, the approved application is forwarded to the Graduate School for final acceptance and processing. The student will be formally notified as to the final outcome of their application by the Graduate School.

ASSISTANTSHIPS AND FELLOWSHIPS

Incoming graduate students are encouraged to apply for University and Departmental assistantships. LSU offers 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, and most require applications that should be submitted by mid-February for the following Fall semester.

In addition, graduate research assistantships are awarded by the Department to qualified students on a competitive basis and are half-time (i.e., 20 hours/week) research appointments. Students must maintain satisfactory performance to remain on an assistantship. This requires maintaining a cumulative GPA of at least a 3.0 (on a 4.0 scale), and satisfactory progress on research. The expected periods of time for students to complete the M.S. and Ph.D. degrees are 2½ and 4-5 years, respectively, and departmental assistantships are generally not extended beyond these time periods. Stipends for graduate students vary depending on the source of funds and possible supplements (i.e., from the Graduate School or grants). Tuition (but not other fees) is waived for students receiving graduate assistantships.
COURSE LOADS AND CONTINUOUS REGISTRATION

The minimum course load to maintain a full-time graduate assistantship is 9 hours during Fall and Spring, and 6 hours during Summer. Students not receiving an assistantship 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 assistanships 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

Graduate Advisory Committee –

The Graduate 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 with other members 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 must be established within the first 6 months of the student’s tenure in the Department.

Credit Hours and Course Work -

The minimum requirement for a Master’s degree is 30 hours of graduate work, including 24 hours of course work and 6 hours of thesis research. At least 15 hours of course work must be graduate (7000) level, which includes required courses and the 6 hours of research (ENTM 8000). Available courses are shown in Appendix A. The Master’s degree must be completed within five years from entrance into the degree program. Specific departmental course requirements include:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTM 7001 General Entomology</td>
<td>4</td>
</tr>
<tr>
<td>Additional 4000 &amp; 7000 courses in Entomology</td>
<td>8</td>
</tr>
<tr>
<td>Additional Courses (Entomology or other)</td>
<td>12*</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

**ENTM 8000: Thesis Research** 6

* Only upper level undergraduate (4000) or graduate (7000) courses can be taken to satisfy this requirement. Special topics (ENTM 7008) may be taken multiple times when topics vary for a maximum of 6 credit hours.

Thesis Research Proposal –

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 the first 6 months of study. Guidelines for this proposal are given in Appendix B. A list of completed courses and those proposed to meet departmental requirements should also be prepared. A meeting of the Graduate Advisory Committee should be convened by the student within 6 months to discuss his/her proposal and course work. (Appendix C)

The Thesis –

The thesis must follow the guidelines for Preparation of Theses and Dissertations available online at http://gradschool.lsu.edu/etp. The thesis should be delivered to the Graduate Advisory Committee members no later than 2 weeks prior to the defense examination.
Master’s Examination/Thesis Defense –

Master’s students are required to present an exit seminar and pass a comprehensive oral examination. The exit seminar is public and the student is expected to publicize the event. The scope of this defense includes, but is not confined to, the student’s thesis research. Members of the student’s committee will use a standardized rubric (Appendix D) to evaluate his/her performance in three areas: 1) understanding of fundamental principles of entomology; 2) proficiencies in oral and written communication; and 3) the Master’s research, which includes development of a research plan, knowledge of relevant scientific literature and statistical techniques, and conduct of the research. Performance in each area is judged using the following scale: 1= below average, 2= average, 3= good, 4 = very good, or 5= superior (top 5%). Rankings from each committee member will be averaged, and the student must receive a passing score (i.e., ≥ 2.0) from the majority of committee members. A student not passing may be re-examined upon a majority vote of the committee. 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 a later section in this handbook, Schedule of Academic Events/Master’s Degree (page 6), for a list of required forms. Turn in voucher specimens (see page 9) to the Louisiana State Arthropod Museum by the time the thesis is submitted to the Graduate School.

REQUIREMENTS FOR THE PH.D. DEGREE

The Doctor of Philosophy (Ph.D.) is the highest 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 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.

Graduate Advisory Committee –

The Graduate Advisory Committee has at least four members: 3 chosen by the student, plus a representative appointed by the Graduate School (i.e., the “Dean’s Representative”). The committee consists of at least 3 members of the LSU 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 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 committee should be established by the end of the first six months of the student’s graduate career. (Appendix C)

Credit Hours and Course Work-

A Doctoral program involves at least 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 suit the needs of each student; however, at least 18 hours of coursework must be graduate (7000) level. For incoming students without a Master’s degree in Entomology, a minimum of 30 hours of coursework plus 24 hours of dissertation research is required. Students with a Master’s degree in Entomology who transfer courses to satisfy required course requirements must take at least 18 additional hours of coursework (including 3 hrs of Special Topics, 2 hrs of Seminar, and 1 hr of Teaching Practicum) plus 36 hours of dissertation research. The doctorate must be completed within seven years from the time a student is classified as a Doctoral student (Grad 7).
Introductory Seminar, Dissertation Research Proposal and Program of Study –

By the end of the first year, students are required to have presented an Introductory Seminar that details their research plan, and to have had their research proposal accepted by his or her Graduate Advisory Committee. Guidelines for the proposal are given in Appendix B. A list of completed courses and those proposed to meet departmental requirements (the Program of Study; Appendix C) should also be prepared and presented to the Committee for approval. Upon approval, it is the student’s responsibility to confirm with the LSU Graduate School that courses proposed for transfer credit meet LSU requirements.

**Minimum** requirements for the Ph.D. degree include:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTM 7001 General Entomology (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>Additional 4000 &amp; 7000-level courses in Entomology</td>
<td>8</td>
</tr>
<tr>
<td>ENTM 7007 Seminar in Entomology</td>
<td>2</td>
</tr>
<tr>
<td>(Introductory Seminar + Qualifying Seminar)</td>
<td></td>
</tr>
<tr>
<td>ENTM 7008 Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>ENTM 7010 Teaching Practicum</td>
<td>1*</td>
</tr>
<tr>
<td></td>
<td>18</td>
</tr>
<tr>
<td><strong>Additional Coursework:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12**</td>
</tr>
</tbody>
</table>

| ENTM 9000: Dissertation Research                      | 24       |
|                                                      | 30       |
|                                                      | 54       |

* ENTM 7010 may be taken multiple times for up to 3 hrs credit.
** Only upper level undergraduate (4000) or graduate (7000) level courses can be taken to satisfy this requirement. In addition to the 3 hrs that are required, Special Topics (ENTM 7008) may be taken multiple times when topics vary for an additional 6 credit hours. Additional courses may not include transfer credits, independent study, or ENTM 9000.

**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, but students must assist with teaching in either AGRI 1005 or ENTM 2001 prior to receiving credit for other courses. Credit for ENTM 7010 will be assigned using a defined rubric (see Appendix F) following an evaluation by the Graduate Advisor (or Department Head) and the instructor of the course.

**Seminar requirements** –

Each Ph.D. student is required to present two seminars to the department while enrolled in ENTM 7007. The first seminar is an “Introductory Seminar” in which the student presents his/her plan of work for the dissertation. The second seminar is a “Qualifying Seminar” which is expected to be given in the same semester in which the student takes his/her General Exam and which presents an update on the student’s progress toward completion of his/her dissertation research. Successful completion of the Qualifying Seminar and the General Exam will be recognized as “Advancement to Candidacy” by the Department.

**General Examination** –

The general exam is oral but may also contain written questions from individual committee members. The exam is taken after most of the student’s coursework is completed, normally after 2 full years of graduate study. Entomology requires that the general exam be taken by the end of the 3rd calendar year of classification as a Doctoral student. Students must be registered for at least 1 hour of credit during the semester of the exam, which may be scheduled on any day that the University is open for business and committee members are
available. 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 the Entomology office.

Members of the student’s committee will use a standardized rubric (Appendix E) to evaluate his/her performance in three areas: 1) understanding of fundamental principles of entomology; 2) proficiencies in oral and written communication; and 3) the Doctoral research, which includes conception of research and knowledge of relevant scientific literature, application of statistical techniques, and the originality and conduct of the research. Performance in each area is judged using the following scale: 1= below average, 2= average, 3= good, 4= very good, and 5= superior (top 5%). Rankings from each committee member will be averaged, and the student must receive a passing score (i.e., ≥ 2.0) from the majority of committee members. 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 submitted to the Graduate School.

The general exam is regarded as the culmination of a student’s coursework, and remaining time should be devoted to concentrated work on the dissertation. At least three months 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 until graduation.

The Dissertation –

The dissertation must demonstrate a mastery of research techniques, ability to perform original and independent research, and skill in formulating conclusions that expand upon or modify accepted ideas. The style of the dissertation must follow the guidelines for Preparation of Theses and Dissertations available online at http://gradschool.lsu.edu/etp. The dissertation should be delivered to members of the student’s Graduate Advisory a minimum of 2 weeks prior to the date of the final examination/dissertation defense.

Final Examination/Dissertation Defense –

The final examination consists of an exit seminar and an oral defense and is concerned primarily with dissertation research and related problems. Upon completion of the dissertation and early in his/her final semester, the student will schedule the final examination. Exams may be scheduled on any day that the University is open for business and committee members are available; however, the exam is normally not scheduled until at least one manuscript has been submitted for publication in a peer-reviewed journal. The defense is public and the student is expected to publicize the exit seminar.

The Graduate School must be notified of the student’s intention to complete degree requirements. A schedule of important dates and deadlines is issued by the Graduate School each semester and should be consulted. A Request for Doctoral 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 the Entomology office.

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. The graduate student is responsible for making sure the Graduate School receives these forms on time. See Schedule of Academic Events/Doctoral Degree (page 7) for a list of required forms. Turn in voucher specimens (see page 10) to the Louisiana State Arthropod Museum by the time the dissertation is turned in.

REQUIREMENTS FOR A MINOR IN ENTOMOLOGY

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).
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 6 months  
   **Initiate through:** Major Professor

3. **Formulation of Plan of Study and Thesis Research** (see Appendix B). 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 6 months  
   **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/Grad Advisor, Dean of Graduate School

5. **Schedule Master’s Defense**  
   **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/Grad Advisor, and Dean, Grad School

6. **Submit thesis to Advisory Committee**  
   **When:** At least two weeks before the Master’s Defense.

7. **Exit seminar (public) and Master’s Defense**  
   **When:** By deadline published by Graduate School each semester  
   **Initiate through:** Major Professor and Advisory Committee

8. **Submit Approved Master’s Examination and Thesis Report** (prepared and sent over by the Graduate School 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
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 B). Meet with Advisory Committee to discuss proposal and course work. Prepare your Program of Study using pages 2 and 3 of the Grad School’s **Doctoral Degree Audit** form (available here: https://sites01.lsu.edu/wp/graduateschool/files/2013/12/Doctoral-Degree-Audit-and-Request-for-General-Examination.pdf) and, after approval by your committee, present it to the Graduate School for an informal audit. Note that you only need to complete pages 2 and 3 of this form.
   **When:** By the end of the first year
   **Approved by:** Advisory Committee and Graduate School (informal)

4. Presentation of Introductory Seminar (enrollment in ENTM 7007 required)
   **When:** By end of first year
   **Initiate through:** Major Professor and Instructor for ENTM 7007

5. 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 of 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/Grad Advisor, Dean, Graduate School

6. Presentation of Qualifying Seminar (enrollment in ENTM 7007 required)
   **When:** Generally in the same semester as General Examination
   **Initiate through:** Major Professor and Instructor for ENTM 7007.

5. Admission to Candidacy. Submit **Committee Examination Report** (sent to the Department by Graduate School after receiving **Request for Doctoral General Examination** form) to the Graduate School.
   **When:** After passing general examination and presenting Qualifying Seminar
   **Approved by:** Advisory Committee, Dean of Graduate School

6. Submit **Application for Doctoral Degree** form 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/Grad Advisor, Dean, Graduate School

8. Submission of dissertation to Advisory Committee  
**When:** At least two weeks before Final Examination  
**Initiated through:** Major Professor

9. Final Examination/Dissertation Defense (including public exit seminar)  
**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/Grad Advisor, 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**

**LSU Department of Entomology Awards:**

L. D. Newsom, Boethel, and Roussel Graduate Student Awards - These awards, generally of $1000 each, are given to individuals who exhibit excellence in academic achievement and graduate research. Award are available for nominees in both the M.S. and Ph.D. programs. Notifications of nomination deadlines will be 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 Departmental activities, and to generate an overall interest in entomology by making the public aware of research 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 and spring crawfish boil. 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 (direct questions to 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  
  30°47’N, 91°15’W
- **Date (Day-Month-Year)**  
  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. *Reaganis huangi* Ottea
- **Det. “name of identifier & year”**  
  Det. J.A. Ottea 2011

**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

## SCHEDULE OF COURSES

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course title</th>
<th>Credit hours</th>
<th>Semester offered</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate Courses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRI 1005</td>
<td>Science and Society</td>
<td>3</td>
<td>Spring</td>
</tr>
<tr>
<td>ENTM 2001</td>
<td>Insects in the Environment</td>
<td>3</td>
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<td>Dissertation Research</td>
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<td>every semester</td>
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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 C
Timelines for Acceptable Progress toward Graduate Degrees

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</table>
This rubric is designed to assess the learning goals (objectives of our matrix) adopted by the Entomology Faculty. For each of the following questions, rank the student on the following scale:

1 = below average  4 = very good  
2 = average        5 = superior (upper 5%)  
3 = good           N/A = not able to judge

Objective 1.

_____ understanding of fundamental principles of Entomology

Objective 2.

_____ proficiency in oral communication

_____ proficiency in written communication

Objective 3.

_____ development of a research plan

_____ knowledge of literature

_____ understanding of statistical techniques

_____ conduct of research

Comments

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

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________________________________________________________________________

________________________________________________________________________
This rubric is designed to assess the learning goals (objectives of our matrix) adopted by the Entomology Faculty. For each of the following questions, rank the student on the following scale:

1 = below average   4 = very good
2 = average    5 = superior (upper 5%)
3 = good     N/A = not able to judge

**Ph.D. RESEARCH PROGRAM**

**Objective 1. Fundamental understanding of principles of Entomology**

___ understanding of fundamental principles of Entomology

___ mastery of an area of specialization

**Objective 2. Proficiency in oral and written communication skills**

___ advanced oral communication skills

___ written communication skills

**Objective 3. Development and conduct of original research**

___ conception of a research and review of literature

___ knowledge and application of appropriate statistical techniques

___ originality of research

___ conduct of research

**Comments**

________________________________________________________________________

________________________________________________________________________

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Appendix F: Guidelines for Assigning Credit for Students in ENTM 7010: Teaching Practicum

- Students enrolled in ENTM 7010 can receive credit (1-3 hrs) for assisting in any course taught by Entomology faculty, at the discretion of and by permission of the course Instructor but must first assist in teaching of AGRI 1005 or ENTM 2001.
- Teaching assistants can receive credit for the following types of activities:
  -- teaching-related contact involving groups of students; examples include preparing and presenting lectures during scheduled lecture periods and leading study/review sessions.
  -- grading
  -- teaching-related contact involving individual students (tutoring, office hours); assumes that teaching assistant possesses mastery of material covered.
- As a guideline, students enrolled in ENTM 7010 in past semesters have received 1 hour of credit for every 4 class periods for which the Assistant had primary responsibility (e.g., 1 hr of credit for every 4 lectures given or for every 4 lab periods coordinated)
- Material presented by the Teaching Assistant must be largely the product of their own efforts
- Teaching Assistants should not receive academic credit for activities that do not involve substantial intellectual engagement—for example, making copies or arranging specimens for a lab period
- If a student is to receive more than 1 hour of credit for teaching during a semester, the Courses and Curriculum Committee should be consulted to ensure appropriateness and uniformity in assigning credit for ENTM 7010
- Students are encouraged to attend at least one CELT-sponsored workshop on teaching
- Written feedback from the Instructor must be provided to the Teaching Assistant at appropriate times during the semester
- Prior to receiving credit for ENTM 7010, the student’s performance must be formerly evaluated by the instructor and either the Department Head or Graduate Advisor using this rubric.
ENTM 7010: Teaching Practicum   Date: _________________
Evaluation of Teaching Assistant          Evaluated by: _________________

Name of Student: ______________________  Course Taught: _________________

Provide a concise description of the duties performed by the teaching assistant: _________________

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

Use the following scale to describe the performance of the teaching assistant
(5= Strongly Agree; 4= Agree; 3= Undecided; 2= Disagree; 1= Strongly Disagree;
NA= Not Applicable)

_____ A. The teaching assistant was prepared for class
_____ B. The teaching assistant was well organized
_____ C. The teaching assistant communicated clearly
_____ D. The teaching assistant made efforts to improve his/her teaching
_____ E. The teaching assistant was effective in one-on-one interactions with students
_____ F. The teaching assistant was familiar with the subject matter of this course
_____ G. The teaching assistant was an effective teacher
_____ H. The performance of the teaching assistant met my expectations

Provide specific suggestions for improving the performance of this teaching assistant

____________________________________________________________________________________
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Additional comments: ________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

17
This evaluation has been reviewed by the teaching assistant and faculty mentor:

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<th>Teaching Assistant</th>
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<th>Faculty Mentor</th>
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