

GRADUATE HANDBOOK
ENTOMOLOGY AND NEMATOLOGY DEPARTMENT
UNIVERSITY OF FLORIDA

Revised by

DEBORAH A. HALL
PROGRAM ASSISTANT

and

DONALD W. HALL
GRADUATE COORDINATOR

15TH EDITION

2007

PREFACE

This handbook provides information for graduate students and faculty on policies and requirements of the Florida Board of Education, the University of Florida Board of Trustees, the University of Florida, the College of Agricultural and Life Sciences (CALs), and the Entomology and Nematology Department.

The handbook does not replace the Graduate School Catalog, which contains the official information concerning rules, regulations, course descriptions, degree requirements, etc. While you are here as a student, you will be governed by the catalog issued in the year of your first enrollment. Faculty and staff will assist the student in meeting all academic requirements that apply to his/her program, but the student is ultimately responsible.

This is the 14th edition of the Graduate Handbook. Most of the information in previous editions was compiled and written by former Graduate Coordinators, especially by the late Dr. Stratton H. Kerr, Dr. John R. Strayer, and Dr. Grover C. Smart.

We are indebted to the department chair, Dr. John L. Capinera, and the Graduate Committee for editing the manuscript, and to Pamela Howell for typing the course descriptions, compiling the index, and formatting the entire handbook. Members of the Graduate Committee are Drs. Marc A. Branham, Marjorie A. Hoy, Larry W. Duncan, Phillip E. Kaufman, Heather J. McAuslane, Robert McSorley. In addition to editing the handbook, the Graduate Committee plays a prominent role in formulating graduate policies and helping the Office of the Graduate Coordinator run smoothly.

The first Graduate Coordinator in this department was Dr. Vernon G. Perry, who served (dates not known) under department chair Dr. W.G. Eden. Dr. Perry was followed by Dr. Thomas J. Walker (1975-1976), the late Dr. Stratton H. Kerr (1976-1988), Dr. John R. Strayer (1988-31 July 1993), Dr. Armen Charles Tarjan (1 August 1993-31 December 1996), Dr. Grover C. Smart, Jr. (1 January 1997-30 July 2003), and Dr. Donald W. Hall (1 August 2003-present).

Donald W. Hall
Graduate Coordinator
26 June 2007

Graduate Student Responsibilities

Graduate students on assistantship are responsible for assigned duties from either their research advisor or the graduate coordinator, depending on the source of support. This assigned work is in addition to work done on a student's own research. Students, including those on fellowships or with other sources of support, may have responsibilities for colony maintenance or other tasks with other students or technical support staff in their advisors' laboratories that are required for the mutual success of their and their advisors' research projects. Graduate study is a full-time job and may even include some evening and/or weekend obligations. Students are committed to classes, research, seminars and service for at least 40 hours per week (specific hours to be set by the students' advisors). Therefore, students must make arrangements with their faculty advisors for any changes to this requirement or any absences -- including those during University break periods and holidays.

INDEX

ENTOMOLOGY AND NEMATOLOGY DEPARTMENT

GRADUATE STUDENT HANDBOOK

	<u>PAGE</u>
PREFACE.....	i
GRADUATE STUDENT RESPONSIBILITIES	ii
INDEX.....	iii
GRADUATE STUDENT CHECKLIST.....	vi
ADMISSION	1
FINANCIAL ASSISTANCE	
Domestic Students	4
Gahan Assistantships	4
Steinmetz Assistantships.....	4
Departmental Assistantships.....	4
Grant-Funded Assistantships	5
Work Requirements for Assistantship Holders.....	5
Stipends.....	5
Cancellation of Assistantships	5
Outside Employment for Students on Assistantships	5
Fellowships	6
Scholarships	6
Employment.....	6
Grants.....	6
Office of Graduate Minority Affairs.....	6
Florida Residency	7
International Students	7
DEGREE REQUIREMENTS	
Completion of Degree Requirements.....	7
Registration	8
Drop/Add	8
Satisfactory/Unsatisfactory (S/U) Grading	9
Program of Study	9
Letter of Appointment.....	9
Evaluation	9
Minimum Course Requirements	10
<u>Entomology Students:</u>	
Masters Degree Students.....	10
Doctoral Degree Students	10
Pest Management Courses	10

INDEX (continued)

	<u>PAGE</u>
Minimum Course Requirements (continued)	
<u>Nematology Students:</u>	
Masters Degree Students.....	11
Doctoral Students.....	11
Pest Management Courses	11
Some Courses at the University of Florida which Satisfy Basic Requirements	12
For Biochemistry	12
For Molecular Biology.....	12
For Statistics	12
Master of Science with Thesis	12
Supervisory Committee	12
Research Proposal.....	12
Program of Study	13
Number of Credits Required.....	13
Transfer of Credit.....	13
Electronic Submission of the Thesis.....	13
Publication of the Thesis.....	14
Exit Seminar and Final Examination	14
Exit Interview	14
Master of Science Non-Thesis	14
Supervisory Committee	14
Program of Study	14
Number of Credits Required.....	15
Change from a Thesis to Non-Thesis Option.....	15
Final Examination.....	15
Exit Interview	15
Doctor of Philosophy in Entomology and Nematology.....	15
Supervisory Committee	16
Responsibilities of Off-campus Chair and Campus Co-chair	16
Research Proposal.....	17
Program of Study	17
Number of Credits Required.....	17
Ph.D. Qualifying Examination.....	17
Admission to Candidacy	18
Electronic Submission of the Dissertation	18
Publication of the Dissertation by Microfilm	19
Publication of the Dissertation in Scientific Journals	19
Exit Seminar and Final Examination	19
Exit Interview	19
Time Limitations.....	20
Certification	20
Laboratory Assistants.....	20

INDEX (continued)

	<u>PAGE</u>
SERVICES	
Libraries	21
Bibliographic Searches	21
Computer Laboratory	21
Statistical Consultation	21
Copying.....	21
Telephone.....	22
Photographic Darkroom and Graphics Laboratory	22
Employment Notices.....	22
Bulletin Boards	22
Student Mailboxes	22
Stockroom.....	22
ORGANIZATIONS	
Entomology-Nematology Student Organization (ENSO).....	23
Urban Entomology Society.....	23
Florida Entomological Society	23
Entomological Society of America	23
Florida Nematology Forum.....	24
Society of Nematologists	24
FACULTY OF THE ENTOMOLOGY AND NEMATOLOGY DEPARTMENT	25
STATISTICS COURSES FOR ENTOMOLOGY-NEMATOLOGY STUDENTS	34
COURSE SCHEDULE	36

GRADUATE STUDENT CHECKLIST

PLEASE READ CAREFULLY

NOTE: The student is responsible for fulfilling all requirements and meeting all deadlines.

COMPLETION
DATE

WHAT

WHEN/WHERE

_____ 1.	Meet with Graduate Coordinator	Upon arrival - Room 1028
_____ 2.	Check Schedule of Courses online	Upon arrival
_____ 3.	New Students: Attend Graduate School and Departmental Orientation Sessions	You have been notified of date, time and place
_____ 4.	Complete Payroll and Appointment Forms for Assistantship, if appropriate	By appointment – Chris Pickles cpick@ufl.edu or 392-1901 X110
_____ 5.	Conditionally Admitted Students: Check Date and Time for Screening Tests for Language and Writing Programs	Upon arrival - See Debbie, Room 1028
_____ 6.	Student ID card	Upon arrival - Reitz Union Welcome Center
_____ 7.	Parking Permit	Upon arrival - Traffic & Parking Bldg.
_____ 8.	Key to Building/Computer Lab	Upon arrival - See Nancy Sanders, Room 1017
_____ 9.	Have Picture Taken for Bulletin Board Display	See Debbie, Room 1028 for an appointment
_____ 10.	Meet with Advisor to Determine Courses to take the First Semester	Upon arrival
_____ 11.	Register	See Debbie in Room 1028 (Late registration fee is \$100.00; Late payment fee is \$100.00)
_____ 12.	First Committee Meeting	Completed no later than end of first semester
_____ 13.	Ph.D. Students: For Possible Transfer of up to 30 Credits from M.S. degree	Must be done the first semester enrolled. Official M.S. final transcript must be provided.
_____ 14.	Program of Study	Meet with Major Professor to complete no later than end of first semester or records will be flagged.
_____ 15.	Oral & Written Research Proposal	MS students by end of the second semester. PhD students at least one full semester prior to Qualifying Exam. Written proposal must be submitted to Supervisory Committee and Graduate Coordinator at least 10 days prior to oral presentation. See Debbie Hall for room reservation for oral presentation.
_____ 16.	Letters of Appointment and Evaluation	Prior to the end of each semester. Student and committee chair must sign and return forms to the departmental business office, Room 1021.
_____ 17.	Ph.D. Qualifying Exam; Written and Oral	Should be taken the third semester and no later than fifth semester of graduate study beyond M.S. Arrange date and time with Supervisory Committee as early as possible.
Give		Debbie title, date, and time at least 10 days prior to date. Do not reserve a room.

GRADUATE STUDENT CHECKLIST

COMPLETION

DATE

WHAT

WHEN/WHERE

_____ 18.	Admission to Candidacy for Ph.D.	Form submitted to Graduate School upon satisfactory completion of oral Qualifying Exam
_____ 19.	Registration for Doctoral Research	<u>ENY 7980</u> or <u>NEM 7980</u> may be used only after Qualifying Exam has been passed
_____ 20.	Guide for Preparation of Thesis and Dissertation	On the web at: http://gradschool.rgp.ufl.edu/etd
_____ 21.	Application for Degree	Check degree application deadline. <u>Must</u> apply for degree <u>each</u> term you expect to graduate.
_____ 22.	M.S. Department Defense Deadline	Check with Debbie for Department deadline.
_____ 23.	First submission of Thesis or Dissertation to the Graduate School	See “DEADLINES” for <u>each</u> submission of your thesis or dissertation. See Debbie in Room 1028.
_____ 24.	Dissertation Defense and M.S. Final Exam	Arrange date with <u>all</u> committee members as early as possible. Give the title, date and time to Debbie at least 10 days prior to defense. Do not reserve room.
_____ 25.	Exit Seminar: <u>Required</u> of all M.S. with thesis candidates and all Ph.D. candidates.	Given the term of graduation one hour prior to final exam Reserve room with Debbie, Room 1028.
_____ 26.	M.S. Non-Thesis Oral Exam	See Debbie for room assignment and preparation of written announcement. Clear date with Supervisory Committee.
_____ 27.	Final Copy of Thesis or Dissertation	Provide Graduate Coordinator’s office with a final copy of thesis or dissertation prior to graduation.
_____ 28.	Exit Interview with Department Chairperson	Prior to graduation. Call 392-1901 ext. 110 for an appointment.
_____ 29.	Final Submission of Signature Page and Abstracts to Associate Dean, CALS and Graduate School Editorial Office	Immediately following EID final Submission – by appointment only. Call 392-2251 for appointment.
_____ 30.	*Return all items checked out of Stockroom	As soon as possible, to Stockroom, Room 2326
_____ 31.	*Return all keys issued by the Department	As soon as possible, to Nancy Sanders, Room 1017

***Return of Stockroom items and keys will be verified before departmental certification of degree**

ADMISSION

The Entomology and Nematology Department encourages inquiries and applications from all qualified students. In order to access information about our department including the faculty, student body and courses taught, prospective students are encouraged to visit the department's web site at:

<http://entnemdept.ifas.ufl.edu/>

Since the information is available on our web site, except in special circumstances, the Office of the Graduate Coordinator no longer mails out application packets of materials. Students must apply online, by visiting the University of Florida web site where information is available to guide the student through the application process. If the student prefers not to apply online, forms may be printed, filled out, and submitted by mail. The \$30.00 application fee and residency form must be submitted before the department may review the application.

<http://gradschool.rgp.ufl.edu/students/application-and-admission.html>

To be admitted to the Graduate School, the student must have earned a bachelor's degree from an accredited college or university. The Entomology and Nematology Department does not require an undergraduate major in entomology, nematology, or biology as a condition of admission.

Applicants must provide the **Office of Admissions** with official transcripts of all previous college and/or university studies and official GRE and TOEFL (if applicable) scores submitted directly from ETS. If the transcripts and diploma or degree certificate are not in English, certified copies of English translations must be included. Send documents to the Office of Admissions -- **not to the Graduate School**.

Our department requires the following documents, which should be sent to the Graduate Coordinator, and not to the Office of Admissions: (a) a Statement of Purpose written by the student, which should indicate previous training and experience, interests, and educational and career goals as an entomologist or nematologist; (b) three letters of recommendation from persons in a position to evaluate the student's academic potential; (c) the form requesting an assistantship or fellowship, unless you are funded by another organization such as your institution, government, a granting agency, or are self-funded; (d) copies of transcripts with degree statement (photocopies are satisfactory); and (e) a copy of your GRE general test score.

Also, we require that a prospective student find a faculty member who will be his/her major advisor and provide a research opportunity, which may include an assistantship. We do not review application documents for graduate study until students have a faculty advisor and until the source of

funding is known. The faculty member must provide a letter to the Graduate Coordinator's Office stating that she/he will supervise the student and whether she/he also will provide funding.

Our Graduate Committee, chaired by the Graduate Coordinator, makes the admission decision, not the University. If a student is denied admission by our Graduate Committee and wishes to appeal the decision, the Department Chairperson and the Graduate Coordinator serve as an appeals committee. Their decision is final. For various reasons we may not be able to accept everyone who meets the minimum requirements. Alternatively, we may accept a prospective student who does not meet all of the minimum requirements if exceptional strength is shown in a particular area. For example, if the GRE score is below the minimum, and if strength is demonstrated in other areas of the application, we have the option, subject to approval by the Graduate School, of accepting a student on a conditional basis. Conditional admission usually requires that the student make no grade less than a "B" on the first 12 hours of required graduate courses.

Successful students (both domestic and international) usually have a combined (verbal + quantitative) GRE score of at least 1000. However, the GRE is only one of the criteria considered by the Graduate Committee in its admission decisions. For domestic students, our department requires a minimum GPA of 3.0 (4.0 system) on the last 60 credits of upper division undergraduate work.

For international students whose language of academic instruction is not English, we require a minimum score of 550 on the paper-based TOEFL or 213 on the computer-based TOEFL. Additionally, international students must certify financial responsibility as stipulated in the documents obtained from the University of Florida International Center web site (<http://www.ufic.ufl.edu>). Financial support may come from the student's government, a granting agency, personal funds, or from a faculty member. The Certification of Financial Responsibility form must be submitted to the International Center before an I-20 can be issued.

Direct Admission to the Ph.D. Program (without M.S. degree)

Only the very best students will be considered for acceptance into the Ph.D. program without first completing the M.S. degree. The following requirements will apply:

- 1) Undergraduate GPA at least 3.5
- 2) GRE Verbal + Quantitative at least 1250
- 3) GRE Biology Subject Test – score 80th percentile or higher
- 4) Previous biological sciences research experience (e.g., undergraduate thesis, published paper[s], presentation or poster at scientific meeting)
- 5) Clear and focused statement of intent (professional goals and research area)
- 6) Strong letters of recommendation
- 7) Strong support from Department of Entomology and Nematology Dissertation advisor for student to go straight into the Ph.D. program

Exceptions for students not meeting all of the above criteria would require a unanimous vote of the graduate committee.

FINANCIAL ASSISTANCE

DOMESTIC STUDENTS

Gahan Assistantships

The Gahan assistantships were established by the late Dr. James B. Gahan, USDA Entomologist, and his wife, Mrs. Margaret H. Gahan, to be awarded to outstanding M.S. or Ph.D. students in entomology according to personal goals, interests, and academic achievements. Students awarded these assistantships are given a stipend and tuition waivers. Students awarded a Gahan assistantship will be assigned teaching duties by the Graduate Coordinator.

Steinmetz Assistantships

The Steinmetz assistantships were established by Mr. C.P. and Mrs. Lynn Steinmetz to be awarded to outstanding M.S. or Ph.D. students. Students awarded these assistantships are given a stipend and tuition waivers.

Departmental Assistantships

The department has a few teaching assistantships that can be awarded to outstanding M.S. or Ph.D. students on a semester by semester availability. Students awarded these assistantships are given a stipend and tuition waivers. Teaching duties are assigned by the Graduate Coordinator. See Table 1 for the maximum number of semesters that the Gahan, Steinmetz, and departmental assistantships may be held.

Table 1. Number of Semesters that Gahan, Steinmetz, and Departmental Assistantships may be held

<u>Degree Sought</u>	<u>No. of Semesters*</u>
Masters (M.S. with thesis or M.S. non-thesis)	6
Ph.D. (M.S. earned elsewhere or not sought)	9
M.S. and Ph.D. at the University of Florida	15

* Summer semester "C" counts as a semester

Grant-Funded Assistantships

Faculty members often award assistantships from grants. Students awarded these assistantships must perform work relevant to the grant stipulations. In many cases, the research conducted, or at least a part of it, may be used for the thesis or dissertation. Students on these assistantships are provided a stipend and tuition waivers. The faculty members holding the grants determine the length of time these assistantships may be held.

Work Requirements for Assistantship Holders

Most assistantships are 1/4, 1/3 or 1/2 time. Recipients of 1/4 time assistantships are obligated to work 10 hours per week at whatever assignments their advisors designate. Recipients of 1/3 time assistantships are obligated to work 13 hours per week and recipients of 1/2 time assistantships are obligated to work 20 hours a week at whatever assignments their advisors designate. Students supported from a faculty research grant usually must perform work according to the grant stipulations. For Gahan, Steinmetz, and departmental assistantships, the Graduate Coordinator determines the work to be done, which usually is as a laboratory instructor.

Stipends

Stipends for Gahan, Steinmetz, and departmental assistantships are determined by the Graduate Coordinator. Stipends for assistantships funded from grants are determined by faculty members who hold the grants.

Cancellation of Assistantships

A Letter of Appointment, signed by the student and the advisor, is issued to the student each semester and becomes a contract. Neither the department nor a faculty member may cancel an assistantship prior to the end of the contract without cause. The student may cancel the contract prior to the end of the contract (a semester), but then becomes liable for tuition that was waived while on the assistantship. Until those financial obligations are settled, the student cannot register, get a transcript, and cannot graduate.

Outside Employment for Students on Assistantships

The department discourages students on assistantships from holding outside employment. Sometimes we recognize that additional employment may be necessary for financial reasons. If this becomes necessary, please obtain permission from your advisor before seeking other employment.

Fellowships

There are a few prestigious university-wide fellowships (Presidential and Alumni) awarded on a highly competitive basis for students seeking a Ph.D. The Graduate Committee nominates outstanding students for these fellowships. Nominations must be made in January for the following Fall semester. Students nominated must have been accepted by our department, but not yet enrolled.

Scholarships

A number of scholarships, usually ranging from \$500 to \$2000, are awarded from endowment funds provided by families, clubs, etc. Most of these, such as those awarded by the Agricultural Women's Club, are awarded on the basis of scholarship and service to the department and community. Students must apply for these scholarships, and usually a letter from the advisor must be included in the application packet.

Employment

Some domestic graduate students support themselves by working part time, usually as technicians, in the many laboratories in Gainesville. If the funds paid to these student employees can be converted into assistantships by the employing agency, the students are given fee waivers.

Grants

Some of our graduate students fund their studies, at least in part, from grants that they obtain by writing grant proposals and having them funded. We encourage students to write grant proposals.

Office of Graduate Minority Affairs

The Florida Board of Education Summer Program. This program is held in Summer B semester and is designed for under-represented minority graduate students. Participants receive a stipend of \$1500 and tuition for 4 credit hours. The student pays student activity fees. The student must enroll as a full-time graduate student the following academic year. Students must be U.S. citizens or permanent residents.

The FAMU Feeder Program. This program is designed to increase the number of FAMU African-American graduate students. The University of Florida provides five fellowships annually and all graduate programs at U.F. may compete for them. The application deadline is 15 February each year.

McKnight Doctoral Fellowships. These fellowships are awarded by the Florida Education Fund to African-American students newly admitted into selected doctoral programs. The stipend is for \$12,000 and tuition and fees are paid for a period up to two years. The application deadline is 15 January each

year, and application must be made to the Florida Education Fund, 201 East Kennedy Blvd., Suite 1525, Tampa, FL 33602. The telephone number is 813-272-2772.

The Office of Graduate Minority Affairs may be reached at 235 Grinter Hall, telephone 352/392-6444, or 800-753-9798 (e-mail address: ogmp@ufl.edu, and on the web at: <http://www.rgp.ufl.edu/minority-programs/brochure.html>).

Florida Residency

The University of Florida requires all eligible non-Florida residents to apply for Florida Residency Status during their first year. Instructions for application for Florida residency are found on your Letter of Offer. If you are not eligible to apply for residency, then you must contact the Graduate Coordinator's Office for further guidance.

INTERNATIONAL STUDENTS

International students are funded by their institutions, governments, organizations such as US-AID (United States Agency for International Development), OAS (Organization of American States), or IAEA (International Atomic Energy Agency), or by faculty from grants.

International students on assistantship will pay tuition fees at in-state rates the entire time they are on assistantship. They must demonstrate financial resources of \$34,830 per year to be permitted to come to the United States as a student. If they bring families, an additional \$3,000 per year for a spouse and \$1,500 per year per child must be certified. (These dollar amounts were current for 2005-2006 academic year but most likely will be increased in future years.

DEGREE REQUIREMENTS

NOTE: It is the responsibility of the student to observe all regulations and procedures required by the program he/she is pursuing. The Graduate Catalog is the ultimate authority on regulations and procedures. Ignorance of a rule does not constitute a basis for waiving that rule.

Completion of Degree Requirements

All students are expected to complete degree requirements and graduate within a reasonable time. An M.S. with thesis or M.S. non-thesis can be earned in two years (6 semesters), and a Ph.D. degree in three years (9 semesters) after the masters degree. However, since research is not predictable, it often takes longer to complete the M.S. and Ph.D. degree requirements. See Table 1 for the number of semesters that a student may hold a Gahan, Steinmetz, or departmental assistantship.

Registration

Students enrolled at the University of Florida may pre-register for the next semester, register during the regular registration period, or register late during the drop/add period. Currently, the charge for late registration is \$100.00, and the charge for late payment of fees is \$100.00. To avoid these charges, register on time and pay fees on time. You may register through ISIS (Integrated Student Information System), or through the Departmental Student Services Office, Room 1028.

Table 2. Minimum Number of Credits for Full-Time Registration

	Fall and Spring	Summer				
		A	&	B	or	C
Full-time graduate students not on assistantship	12	4		4		8
Assistants on .01-.24 and/or fellows and trainees	12	4		4		8
Assistants on .25-.74	9	3		3		6
Assistants on .75-.99	6	2		2		4
Full-time assistants:						
1.00 Fall and Spring	3					
1.00 Summer A		2		or		2
1.00 Summer B		2		or		2
1.00 Summer C		1	&	1	or	2
Part-time graduate students not on assistantship	3	1	&	1	or	2
Graduate students not on assistantship during final term	3	1	&	1	or	2

Note: Registration requirements listed here do not apply to eligibility for financial aid programs administered by the Office for Student Financial Affairs. Check with Student Financial Affairs in S-107 Criser Hall for financial aid registration requirements.

Students who do not register properly (according to the above table) for each semester that they hold graduate assistantships will not be permitted to remain on assistantships. For students on assistantships for the full summer, minimum registration must total that specified for C term. Registration may be in any combination of A, B, or C terms. However, courses must be distributed so that the student is registered during each term that he/she is on appointment. Students on assistantships registering for any summer term must register at the beginning of A/C term.

Drop/Add

During the drop/add period the student may drop and add courses with no penalty but should have prior approval of the advisor. After the regular drop/add period, the student must petition to process Schedule Adjustment forms. The petition form requires the student's justification and signature, the

justification and signature of the advisor, Graduate Coordinator, and approval of the Associate Dean, CALS. Students should assess the need to drop a course as soon as possible; overloads will not necessarily be viewed as a hardship. Drop/Add and Schedule Adjustment forms must be initiated by the Graduate Coordinator's Office. If a student on assistantship drops to less than the minimum number of required credits per semester, he/she will lose the assistantship, and, in addition, must reimburse the University for fees waived and may be liable for the stipend paid that semester.

Satisfactory/Unsatisfactory (S/U) Grading

In our department, grades of S and U are the only grades awarded for 6910 (Supervised Research), 6931 (Seminar), 6932 (Special Topics), 6940 (Supervised Teaching), 6971 (Master's Research), 7979 (Advanced Research), and 7980 (Doctoral Research).

Program of Study

The Program of Study lists the courses to be taken and the semesters in which the student plans to take them. To help the Supervisory Committee plan for completing the Program of Study, please provide each committee member an informal record of previous studies (form available in the Office of the Graduate Coordinator). Also, coordinate a time when you and all committee members can meet together to complete a mutually agreeable schedule of courses to fit your particular needs. Schedule this meeting 10 days in advance with Debbie Hall, Room 1028.

The student may take courses not listed on the Program of Study. If, for any reason, the student fails to take a course listed on the Program of Study, his/her advisor must petition the Graduate Coordinator to have the course(s) deleted from the Program. Otherwise the student will be unable to graduate for failure to complete the Program of Study.

Letter of Appointment

Each student on an assistantship or fellowship must have a Letter of Appointment each semester. This form, along with the Evaluation Form, is sent to the student's advisor before the end of each semester, and must be signed by the student and the advisor and returned to the business office.

Evaluation

Each student in this department is required to have an evaluation of progress at the end of each semester. The evaluation must be made by the student's advisor (or possibly by the entire Supervisory Committee). The evaluation form must be signed by the student and the advisor and returned to the Graduate Coordinator's office.

MINIMUM COURSE REQUIREMENTS

Entomology Students

Masters Degree Students shall take, or shall have taken, the following courses:

- A course in insect physiology
- A course in insect classification
- A graduate course in ecology
- Entomology Seminar (must register for at least one semester at UF). Must be “graded”
- A course in biochemistry or molecular biology (BCH 5045 or ENY 5820)
- A beginning course in statistics
- A pest management course (see list below)*

Doctoral Degree Students shall take, or shall have taken, the following courses:

- A course in insect physiology
- A course in insect classification
- A graduate course in ecology
- Entomology Seminar (must register for at least two semesters at UF). Must be “graded”
- A course in biochemistry or molecular biology
- A 4000 level or higher course in statistics
- A pest management course (see list below)*

***Pest Management Courses - must take at least one**

- PMA 3010 Fundamentals of Pest Management (take as ENY 6905)
- PMA 6228 Field Techniques in Integrated Pest Management
- ENY 5226 Principles of Urban Pest Management
- ENY 5236 Insect/Pest/Vector Management
- ENY 5245 Agricultural Acarology
- ENY 5241 Biological Control of Insects
- ENY 6665 and ENY 6665L Advanced Medical and Veterinary Entomology
- NEM 5707 Plant Nematology

Nematology Students

Masters Degree Students

- A beginning course in nematology
- Nematode Morphology and Anatomy
- Nematode Taxonomy and Systematics
- A graduate course in ecology
- Nematology Seminar (must register for at least one semester at UF)
- A course in biochemistry or molecular biology
- A beginning course in statistics
- A pest management course (see list below)*

Doctoral Students

- A beginning course in nematology
- Nematode Morphology and Anatomy
- Nematode Taxonomy and Systematics
- A graduate course in ecology
- Nematode Identification
- Nematology Seminar (must register for at least two semesters at UF)
- A course in biochemistry or molecular biology
- A 4000 level or higher course in statistics
- A pest management course (see list below)*

***Pest Management Courses - must take at least one**

- PMA 3010 Fundamentals of Pest Management (take as ENY 6905)
- PMA 6228 Field Techniques in Integrated Pest Management
- ENY 5226 Principles of Urban Pest Management
- ENY 5236 Insect/Pest/Vector Management
- ENY 5245 Agricultural Acarology
- ENY 5241 Biological Control of Insects
- ENY 6665 and ENY 6665L Advanced Medical and Veterinary Entomology
- NEM 5707 Plant Nematology

Some Courses at the University of Florida which Satisfy Basic Requirements

for biochemistry

BCH 3023 Elementary Organic and Biological Chemistry (Botany Department)

BCH 3025 Fundamentals of Biochemistry (Food Science and Human Nutrition Dept.)

BCH 5045 Graduate Survey of Biochemistry (Agriculture General)

for molecular biology

ENY 6822 Molecular Biology Techniques with Invertebrates and Their Pathogens (Maruniak)

ENY 5820 Insect Molecular Genetics (Hoy)

for statistics

STA 2023 Introduction to Statistics (Statistics Department)

AGR 5266 Field Plot Techniques (Agronomy Department)

STA 6166 Statistical Methods in Research I (Statistics Department)

Master of Science with Thesis

Supervisory Committee

The Supervisory Committee should be appointed as soon as possible but no later than the mid-point of the second semester of study. The Graduate School requires that the Supervisory Committee be comprised of at least two Graduate Faculty members. Two members must be from the Entomology and Nematology Department. If the student declares a minor (not required), one of the Supervisory Committee members must be from the minor department. The Supervisory Committee chair and one member must have been appointed to the Graduate Faculty. If the Supervisory Committee is not appointed before the end of the second semester of study, the Graduate School will place a hold on the student's record preventing further registration.

Research Proposal

Students beginning the M.S. with thesis program Fall, 2006 and after are required to prepare a written research proposal to include a review of the literature, hypotheses, and a detailed description of their planned experimental design and statistical analysis and to give an oral presentation of it. The written proposal and announcement of the oral presentation must be e-mailed to all departmental graduate faculty at least 10 days prior to the oral presentation. The research proposal must be presented by the end of the second semester.

Program of Study

Meet with Major Professor to complete preliminary Program of Study and turn in signed copy to Graduate Coordinator's Office no later than end of first semester or records will be flagged. As soon as Advisory Committee is formed, they should approve Program of Study and the updated Program of Study with signatures of Committee members should be filed in the Graduate Coordinator's Office at that time.

Number of Credits Required

A minimum of 30 credit hours is required, six of which must be ENY 6971 or NEM 6971, Research for Master's Thesis. Total registration for 6971 is unlimited, but only 6 credits will count toward the 30 required. The student must register for a minimum of three credits of 6971 in the term of graduation regardless of previous credits taken. Students on assistantships during the term of graduation, must register for at least 9 credits for the fall or spring semester and 6 credits for the summer semester. Students on fellowships must register for 12 credits for the fall or spring semester and 8 credits for the summer semester.

Twelve of the 30 credits must be courses in the major, numbered 5000 or above, and letter-graded (no S/U). A minimum GPA of 3.0 is required in the major, the minor (if chosen), and to graduate. If a minor is chosen, the minor representative will determine the requirement for his/her department. For work outside the major, 6 credits in courses numbered 3000 and 4000 may count for graduate credit provided they are listed on the Plan of Study. Unless otherwise approved in writing by the Graduate School, minor work must be in a department other than the major.

Transfer of Credit

A maximum of 9 credit hours of graduate courses with grades of A, B+, or B, may be transferred into an M.S. program from other institutions, if approved by the Graduate School. A maximum of 15 credit hours of graduate courses with grades of A, B+, or B, taken as post-baccalaureate or non-degree seeking student at the University of Florida may be transferred to the M.S. program. Petitions for transfer of credit must be made during the first semester of enrollment in the graduate program.

Electronic Submission of the Thesis

All students must submit their theses electronically. The College of Agricultural and Life Sciences (CAL S) requires a paper copy of the academic abstract that may be on copy paper. The Entomology and Nematology Department requires a paper copy of the entire thesis that must be submitted to the Office of the Graduate Coordinator for binding and deposit in the Reading Room. Usually, the Supervisory Committee chairperson will want a paper copy of the thesis, as may other members of the committee. The thesis must be approved by all members of the Supervisory Committee,

the Associate Dean, CALS, and the Dean of the Graduate School. Information on format of the thesis may be obtained from the web at: <http://gradschool.rgp.ufl.edu/etd>.

Publication of the Thesis

If a student is not making good progress toward publishing the thesis one year after graduation, the student's major advisor has the option of publishing it. The student will be the first author. "Making good progress" will be defined as at least a first draft of one or more manuscripts having been received by the advisor.

Exit Seminar and Final Examination

The student must give an exit seminar and pass a final examination administered by the Supervisory Committee. The examination will be oral, and cannot be taken earlier than the term before the degree is to be awarded. Before taking the final examination, the student's thesis should be in final form, and an original bond paper signature page prepared for the committee members' signatures. The exit seminar is usually given immediately preceding the final examination.

Exit Interview

All students must complete an exit interview with the Department Chairperson.

Master of Science Non-Thesis

Supervisory Committee

The Supervisory Committee should be appointed as soon as possible but no later than the mid-point of the second semester of study. If the committee is not appointed before the end of the second semester, the Graduate School will place a hold on the student's record preventing further registration. The Graduate School requires that the Supervisory Committee may be comprised of only one faculty member but our department requires at least two. If the student declares a minor (not required), one of the Supervisory Committee members must be from the minor department. The chairperson and external member of the supervisory committee must have been appointed to the Graduate Faculty. Special member status may be granted to non-University of Florida members.

Program of Study

Meet with Major Professor to complete preliminary Program of Study and turn in signed copy to Graduate Coordinator's Office no later than end of first semester or records will be flagged. As soon as Advisory Committee is formed, they should approve Program of Study and the updated Program of Study with signatures of Committee members should be filed in the Graduate Coordinator's Office at that time.

Number of Credits Required

Minimum requirements are 30 credit hours. Six of these 30 credits may be S/U graded. At least 15 of the 30 credits must be graded courses in the major. One or two minors of at least six credits each may be chosen [minor(s) not required]. Six credits outside the major may be courses numbered 3000 and 4000. A minimum GPA of 3.0 is required in the major, the minor, and to graduate.

Change from a Thesis to Non-Thesis Option

Students who wish to change from a thesis to a non-thesis option must obtain the permission of the Supervisory Committee and Graduate Coordinator. A petition requesting the change must be forwarded through the Graduate Coordinator and the Associate Dean, CALS, to the Graduate School at least one full semester prior to the intended graduation date. The student must meet all requirements of the non-thesis option. At the discretion of the Supervisory Committee, and with the approval of the Graduate School, 3 semester credits of 6971 (Master's Research) may be converted to 6905 (Special Problems) or 6934 (Selected Studies) with a letter grade of B or above. To do so, a petition written by the Chairperson of the Supervisory Committee must certify that the 6971 work was productive in and by itself and warrants credit as a Special Problem or Selected Study. The petition must be addressed to the Dean of the Graduate School and approved by the Graduate Coordinator and the Associate Dean, CALS.

Final Examination

The final examination, given during the final semester, must be both written and oral with written questions from all Supervisory Committee members. All committee members must be present with the candidate for the oral examination.

Exit Interview

All students must complete an exit interview with the Department Chairperson.

Doctor of Philosophy in Entomology and Nematology

Admission to the Ph.D. program after completing an M.S. program at U.F. is not automatically permitted. The student must write a letter to the Graduate Coordinator requesting continuation and containing a new Statement of Purpose. Also, the student's former advisor must write a letter to the Graduate Coordinator evaluating the academic ability of the student to complete the Ph.D. program successfully. The new advisor must write a letter stating that he/she will supervise the student and whether he/she also will provide funding. These letters, along with the original application documents for the M.S. degree, will be circulated to the Graduate Committee for a vote on acceptance. (If the former

and new advisors are the same, all information may be in one letter). All application documents must be received by the Graduate Coordinator's Office prior to mid-semester of the graduation term.

Supervisory Committee

A student who obtains an M.S. degree in the Entomology and Nematology Department and remains for the Ph.D. degree must have a Supervisory Committee appointed and a Plan of Study completed during the first semester of the Ph.D. program.

The Graduate School and the Entomology and Nematology Department require that all Ph.D. Supervisory Committees be comprised of at least four faculty members. At least two members, including the chair, must be from this department and one must be from a different department. The chairperson and external member of the supervisory committee must have been appointed to the Graduate Faculty. Special member status may be granted to non-University of Florida members. If the student declares a minor (not required), at least one committee member must be from the minor department. The Supervisory Committee must approve the dissertation topic and the plans for carrying out the research. The committee should meet with the student at about the mid-point of the research to review procedures, progress, expected results, and make suggestions for completion of the program.

Responsibilities of Off-campus Chair and Campus Co-chair

Graduate students whose faculty supervisor (i.e., chair of their graduate committee) is off-campus may select a Gainesville faculty member as a co-chair if they plan to spend any or all of their time on campus. Typically the co-chair will provide supervision of and assistance to the student while on campus. For those students who will perform their research off campus, the co-chair should guide the student in choosing classes and should provide feedback during the development of the research proposal in collaboration with the chair. For those students who will conduct their research on campus (a less common situation), the co-chair may help with research planning and implementation by providing the student laboratory space, supplies and equipment necessary to perform his/her research. In this situation, because the co-chair may be more familiar with the research done by the student in his/her lab, the co-chair will also take substantial responsibility for assisting the student in the process of writing the thesis/dissertation and manuscripts. Whether the student conducts his/her research on campus or off, the co-chair and chair will communicate regularly about the student's progress. Co-chair and chair should both assume responsibility for the success of the student's graduate experience.

Research Proposal

Students beginning the Ph.D. program Fall, 2006 and after are required to prepare a written research proposal to include a review of the literature, hypotheses, and a detailed description of their planned experimental design and statistical analysis and to give an oral presentation of it. The written proposal and announcement of the oral presentation must be e-mailed to all departmental graduate faculty at least 10 days prior to the oral presentation. The research proposal must be presented at least by the semester immediately preceding the semester in which the Qualifying Examination is taken.

Program of Study

Meet with Major Professor to complete preliminary Program of Study and turn in signed copy to Graduate Coordinator's Office no later than end of first semester or records will be flagged. As soon as Advisory Committee is formed, they should approve Program of Study and the updated Program of Study with signatures of Committee members should be filed in the Graduate Coordinator's Office at that time.

Number of Credits Required

A minimum of 90 credit hours beyond the bachelor's degree is required. A maximum of 30 credits with a grade of B or better may be transferred into the Ph.D. program from an M.S. degree from other colleges or universities approved by the Graduate School. All credits earned in an M.S. program at the University of Florida are carried on to the Ph.D. program. A minimum GPA of 3.0 is required in the major, the minor (if chosen), and to graduate. If a minor is taken, at least 12 credits in the minor subject are required. If two minors are taken, at least 8 credits in each are required.

Students must register for a minimum of three credits of ENY 7980 or NEM 7980 Research for Doctoral Research during the term of graduation. Students on assistantships during the semester of graduation, must take 9 credits in the fall or spring semester and 6 in the summer semester. Fellowship holders must register for 12 credits in the fall or spring semester and 8 credits in the summer semester.

Ph.D. Qualifying Examination

The Ph.D. qualifying examination is comprehensive in scope with questions on details as well as principles and generalities. The student should prepare by restudying all courses in one's major and closely allied subjects as if preparing to take a final examination in each subject. This requires a few months of review for most students. The student MUST know his/her specific research area and organism(s) including its taxonomy (from highest taxon to the lowest), life cycle, host range, and geographic range.

The Qualifying Examination may be taken during the third semester after enrolling in the doctoral program, but must be taken by the fifth semester (including summers). It may be taken prior to

completion of all courses. Students failing to meet this deadline must appear before the Department Graduate Committee to request permission to register. The student must be registered for the semester in which the Qualifying Examination is taken. Our department recommends that the Qualifying Examination be taken during the third semester of study for the Ph.D. By that time, the student should have taken most, if not all, of the required courses and be ready to devote most of his/her time to the dissertation research. The examination is both written and oral. Our department requires written examinations from at least four members of the Supervisory Committee. Many Supervisory Committees administer the written examinations one per day on consecutive days one or two weeks before the oral examination. The committee member should grade the examination and return a copy to the student so that he/she will have time to review any weak areas before the oral examination. All members of the Supervisory Committee must be together with the student for the oral portion of the Qualifying Examination. Competence in the minor area (if chosen) may be demonstrated through a written examination conducted by the minor department or through the oral qualifying examination.

Between the oral portion of the Qualifying Examination and graduation, at least two full semesters must elapse for full-time students and one calendar year for part-time students. The semester in which the Qualifying Examination is taken counts as one semester if the examination is taken before the mid-point of the semester.

If a student fails the Qualifying Examination, the Graduate School must be notified. A re-examination may be requested, but it must be recommended by the Supervisory Committee and approved by the Graduate School. If the request is approved, at least one semester of additional preparation is considered essential before re-examination.

Admission to Candidacy

A student is not a candidate for the Ph.D. degree until granted formal Admission to Candidacy. This requires approval of the Supervisory Committee, the Graduate Coordinator, the Associate Dean, CALS, and the Dean of the Graduate School. Approval is based on the student's academic record, overall fitness for candidacy as judged by the Supervisory Committee and the Graduate Coordinator, an approved dissertation topic, and passing a Qualifying Examination. Students may not register for ENY 7980 or NEM 7980, Doctoral Research, until admitted to candidacy.

Electronic Submission of the Dissertation

All students must submit their dissertations electronically. Information on format may be obtained from the web at <http://gradschool.rgp.ufl.edu/etd>.

For electronic submission, CALS requires a paper copy of the academic abstract (may be on copy paper). The Entomology and Nematology Department requires a paper copy of complete dissertation that

must be submitted to the Office of the Graduate Coordinator for binding and deposit in the Reading Room. Usually, the Supervisory Committee chairperson will want a paper copy of the dissertation, as may other members of the committee.

The dissertation must be approved unanimously, and signed by all members of the Supervisory Committee (at the defense), the Associate Dean, CALS, and the Dean of the Graduate School.

Publication of the Dissertation by Microfilm

Since all dissertations are published by microfilm, it is necessary that the work is of publishable quality and that it be in a form suitable for publication. The dissertation must contain an abstract and be accompanied by all doctoral forms and a letter of transmittal from the Supervisory Committee chairperson.

All candidates for the Ph.D. degree must pay \$55 to University Financial Services, S113 Criser Hall for microfilming, and must sign an agreement authorizing publication by microfilm. The candidate may choose to register the copyright of the microfilmed dissertation for a charge of \$45, payable by certified check, cashiers' check, or money order, to B&H and attached to the signed microfilm agreement form.

Publication of the Dissertation in Scientific Journals

If a student is not making good progress toward publishing the dissertation results one year after graduation, the student's major advisor has the option of publishing it. The student will be the first author. "Making good progress" will be defined as at least a first draft of one or more manuscripts having been received by the advisor. We encourage doctoral students to publish at least one paper from their research before graduation.

Exit Seminar and Final Examination

The Final Examination may be taken no earlier than the semester preceding the semester in which the degree is conferred. The Final Examination usually is oral and constitutes a defense of the dissertation. However, it may be oral, or written and oral at the discretion of the Supervisory Committee, and may be used to re-examine the student on any areas in which he/she was weak in the Qualifying Examination. All Supervisory Committee members must be present with the student for the Final Examination.

The student must present an exit seminar based on the dissertation. The exit seminar should be given immediately preceding the Final Examination and the date, time, and room to be used should be scheduled in the Office of the Graduate Coordinator.

Exit Interview

All students must complete an exit interview with the Department Chairperson.

Time Limitations

All work for the doctorate must be completed within five calendar years after the Qualifying Examination, or this examination must be repeated.

Certification

Doctoral candidates who have completed all requirements for the degree may request certification to that effect prior to receipt of the degree. Certification request forms (available on the web at: <http://gradschool.rgp.ufl.edu/education/currentstudents.html>) should be filled out by the candidate, signed by the Supervisory Committee Chair, the Associate Dean, CALS, and returned to the Graduate School for verification and processing. Certification forms will not be processed the week before or one week after graduation.

Laboratory Assistants

Graduate students, whether or not on assistantships, are encouraged to serve as Laboratory Assistants in the various courses taught in the department, especially ENY 3005 for entomology students and NEM 3002 for nematology students. Graduate students on departmental and Gahan assistantships are required to serve as Laboratory Assistants each semester as part of their duties for holding the assistantships, and those on Steinmetz assistantships may be required to do so. The Graduate Coordinator will arrange the time when these students will serve as Laboratory Assistants.

The Laboratory Assistants are in charge of the laboratory but are usually supervised by the course instructor or a senior Laboratory Assistant. Duties includes arranging for supplies, equipment, class materials, demonstrating use of equipment, explaining laboratory procedures, straightening up the lab afterward, storing equipment, conducting field trips, creating, administering, and grading laboratory examinations, and grading the insect collections.

Students are encouraged to enroll in ENY or NEM 6940, Supervised Teaching, and be evaluated by the students, when serving as Laboratory Assistants.

SERVICES

Libraries

Scientific literature is housed in the Marston Science Library, the Health Sciences Library, and the Division of Plant Industry (DPI) library located in the Doyle Conner Building on the University of Florida campus. The DPI library emphasizes systematic and taxonomic works. The Entomology and Nematology Department Reading Room (Room 206) contains a small collection of journals, texts, reference books, trade magazines, etc., and houses the theses and dissertations written by former students in the department.

Bibliographic Searches

Finding relevant literature is vastly aided by computer searches of electronic databases. The databases include those used to compile Biological Abstracts, Helminthological Abstracts, Bibliography of Agriculture, and Review of Applied Entomology. Librarians in the Marston Science Library will help devise a search program and provide advice on the use of databases. The Entomology and Nematology Department Computer Laboratory also provides online access to these databases. All students are encouraged to take ENY 5810 Information Techniques in Research, to become fully informed about computerized literature retrieval.

Computer Laboratory

The department has an excellent computer laboratory in Room 1027. State-of-the-art hardware provides access to word processing, databases, spreadsheets, graphics, and statistical analysis software. Through this lab students are provided access to electronic mail and library services. All students are required to obtain a Gatorlink e-mail account as soon as possible after arrival on campus.

Statistical Consultation

Statistical services are available to our students. Drs. John A. Cornell, Frank G. Martin, Ramon C. Littell, and Kenneth M. Portier all have consultation with IFAS researchers as part of their duties. All have offices in McCarty Hall. For most consultations you will be referred to graduate students in statistics, but the faculty are available if needed. The student should consult a statistician for help in designing experiments in order to make sure that the experimental results can be analyzed properly. Gatorlink may not be forwarded to any other e-mail account (AOL, Yahoo, Hotmail, etc.).

Copying

Students may purchase copying cards from Nick Hostettler, Room 3226, to use the copier in the Reading Room. Libraries on campus are equipped with copiers that anyone may use for a small charge. Students may not use copy machines or remove supplies from the department copy room.

Telephone

Two telephones are available to students for local calls only. One is in Room 1025 and the other is on the outside wall of the administrative wing of the building.

Photographic Darkroom and Graphics Laboratory

The department has a Graphics Specialist, Jane Medley, available for consultation and assistance with various types of art, graphics, and illustrations. The Graphics Lab, Room 1023, is also equipped with a darkroom. Arrangements for using the facility must be coordinated with the Graphics Specialist.

Employment Notices

Job announcements that we receive are posted outside Room 1031.

Bulletin Boards

Bulletin boards displaying various bits of information are located throughout the building. A mobile board in the administrative wing of the building is for posting current seminars and other current events. Other boards are assigned to ENSO for posting its activities. Three bulletin boards display photographs of all graduate students, on-campus faculty members, and support staff. There are numerous boards in the hallways that contain scientific posters describing research conducted by various laboratories.

Student Mailboxes

Each graduate student located in the Entomology and Nematology is assigned a mailbox, located in Room 1025, in which to receive regular mail as well as departmental announcements and special notices. Please check your mailbox regularly. Each student is responsible for giving Nancy Sanders (Receptionist) her/his forwarding address.

Stockroom

The department maintains a well-equipped stockroom (Room 3226) containing various items, especially those needed for classes. A few microscopes and projectors are available. Students (and faculty) may check out items needed for special projects. If you need a microscope or projector, please check with the stockroom attendant. **Never take microscopes, microscopes light, projectors, or TVs from the teaching laboratories!**

ORGANIZATIONS

Entomology-Nematology Student Organization (ENSO)

The Entomology and Nematology Student Organization (ENSO) and the Urban Entomology Society (UES) are the department's university-registered student organizations. ENSO is concerned with all areas of student involvement in the department, the university, and the community. For example, ENSO: (a) sponsors the departmental seminar series; (b) conducts community outreach programs to schools, etc.; (c) assists incoming students with orientation to Gainesville and the university; (d) keeps members informed of special campus events; (e) conveys student concerns and opinions to faculty and administrators; and (f) organizes social events. All graduate and undergraduate students upon enrollment in the department are members of ENSO.

Urban Entomology Society

The Urban Entomology Society (UES) was begun by students in the urban entomology program to unite and support students with an interest in urban entomology. Membership is offered to all graduate and undergraduate students in the department. UES is involved in many of the same activities as ENSO. Some of the activities are: (a) outreach programs to local schools using insects as teaching tools; (b) constructing insect teaching collections for sale to the pest control industry; (c) sponsoring competitive student research presentations in the department; (d) exhibiting UF/IFAS programs, publications, and software at industry trade shows; and (e) sponsoring social events that allow industry representatives to interact with urban entomology students.

Florida Entomological Society

The Florida Entomological Society is a strong force in entomology in Florida, and its journal, the *Florida Entomologist*, has national and international distribution. At the society's annual meetings, awards are given for the best student presentations. The greatly reduced annual dues for student membership includes a subscription to the *Florida Entomologist*. Membership application forms are available from the entomology faculty or online at <http://www.flaentsoc.org/>.

Entomological Society of America

Membership in the Entomological Society of America (ESA) is recommended for all entomologists. Student membership dues include a subscription to the *American Entomologist* and the ESA newsletter. Subscriptions to the society's other journals are additional if one chooses to subscribe to them. The most recent journals are available on the web for subscribers. Membership application forms are available from the entomology faculty, and on the web at <http://www.entsoc.org>.

Florida Nematology Forum

Students in nematology should attend the annual meetings of the Florida Nematology Forum (FNF). Its meetings are held jointly with the Soil and Crop Science Society of Florida (SCSSF) at various locations in Florida. The FNF has no dues and no publications, but plans an annual program and business meeting. Students who have completed sufficient research should participate in the Best Student Paper competition of the joint SCSSF/FNF meetings. Monetary awards are given for the first three places in the “soils” division and in the “crops” division. Nematology students have won several of these awards.

Society of Nematologists

All nematology graduate students should become members of the Society of Nematologists (SON), a national organization. Students may apply for associate membership at a reduced rate. Membership forms are available from the nematology faculty and on the society’s web site. Membership includes a subscription to the society’s official publications, *The Journal of Nematology*, *Annals of Applied Nematology*, and *Nematology Newsletter*. The SON provides monetary awards for the first three places in the Best Student Paper competition held annually. DowElanco, through SON, provides needs-based travel grants for a limited number of students to attend the SON annual meetings. Ask nematology faculty how to apply for these awards.

GRADUATE COURSES

For descriptions of courses, see the University of Florida Graduate Catalog which is available as hard copy or online (<http://gradschool.rgp.ufl.edu/students/catalog.html>). Semester course schedules are on the web at <http://www.registrar.ufl.edu/soc>.

FACULTY OF THE ENTOMOLOGY AND NEMATOLOGY DEPARTMENT

Abbreviations

IFAS: Institute of Food and Agricultural Sciences, University of Florida. Includes the College of Agricultural and Life Sciences, Experiment Station, and Extension Service.

REC: Research and Education Center. A branch research and education unit of IFAS.

FDACS/DPI: Florida Department of Agriculture and Consumer Services, Division of Plant Industry.

CMAVE/USDA: Center for Medical, Agricultural, and Veterinary Entomology, United States Department of Agriculture.

R: Retired, not accepting students.

E: Emeritus (retired), not accepting students.

N: Not accepting students

Numbers

1. Affiliate faculty. University of Florida faculty in units outside the Entomology and Nematology Department who have joint appointments in the department.
2. Courtesy faculty. Entomologists and nematologists in administrative units outside the University of Florida who are appointed to the Entomology and Nematology Department.
3. Graduate Faculty. Faculty who have appointments to serve on the Supervisory Committees of graduate students and teach graduate courses.

-
- Alborn, Hans T. Ph.D., Goteborg University, Sweden, 1988. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Chemical Ecology, biology.
- 3 Ali, Arshad Ph.D., University of Salford, England, 1972. UF/IFAS, Mid-Florida REC-Apopka, 2725 Binion Road, Apopka, FL 32703-8504. Biology, ecology, and control of pest and vector insects; pesticide and biocide impact on nontarget biota in the aquatic ecosystem. Email: aali@ifas.ufl.edu
- 2,3 Allan, Sandra A. Ph.D., University of Massachusetts. **1984**. USDA/ARS/CMAVE, PO Box 110880, Gainesville, FL 32611-0880. Mosquito and Fly Research Unit. Email: sallan@gainesville.usda.ufl.edu
- 3,R Baranowski, Richard M. Ph.D., University of Connecticut, 1959. UF/IFAS, Tropical REC, 18905 S.W. 280th Street, Homestead, FL 33031-3314. Management of sub-tropical fruit pests including fruit flies; biology and systematics of the Hemiptera of Florida and the Caribbean. Email: rmb@ifas.ufl.edu
- 3,N Barfield, Carl S. Ph.D., Texas A&M University, 1976. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Tropical IPM; insect population dynamics; modeling. Email: csb@ifas.ufl.edu
- 2,3,N Barnard, Donald R. Ph.D., University of California-Riverside, 1977. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect morphology; mosquito ecology; ecology of biting gnat vector. Email: dbarnard@gainesville.usda.ufl.edu
- 2,3 Becnel, James J. Ph.D., University of Florida, 1989. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Biological control; microsporidian parasites of mosquitoes. Email: jbecnel@gainesville.usda.ufl.edu
- 2,3 Bernier, Ulrich. Ph.D. University of Florida. 1995. USDA/ARS/CMAVE, PO Box 110880, Gainesville, FL 32611-0880. Mosquito and Fly Research Unit. Email: ubernier@gainesville.usda.ufl.edu
- 2,3 Bloem, Stephanie. Ph.D., University of California, Davis. 1991. USDA-APHIS-PPQ-CPHST, Plant Epidemiology and Risk Analysis Laboratory, 1730 Varsity Drive, Suite 300, Raleigh, NC 27606. Area-Wide Pest Management, Sterile Insect Technique and Inherited Sterility, Insect Rearing, Systematics and Taxonomy, Biological Control,

- Regulatory Plant Science, Risk Analysis. Email: Stephanie.Bloem@aphis.usda.gov
- 3 Borovsky, Dov. Ph.D., University of Miami, 1972. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Insect biochemist. Email: doobo@ifas.ufl.edu
- 3 Boucias, Drion G. Ph.D., University of Kentucky, 1978. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect pathology. Email: dgb@ifas.ufl.edu
- 3 Branham, Marc A. Ph.D., The Ohio State University, 2002. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect mating systems and phylogenetics.
- 3 Brito, Janete. Ph.D. University of Florida. 2002. UF/IFAS, Entomology and Nematology Department, PO Box 110620. Gainesville, FL 32611-0620. Nematology.
- 3 Browning, Harold W. Ph.D., University of California-Riverside, 1988. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850-2299. IPM on citrus and Center Director. Email: hwbrowning@ifas.ufl.edu
- 3 Buss, Eileen A. Ph.D., University of Kentucky, 1999. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Turfgrass, ornamental and landscape entomology, IPM. Email: eabuss@ufl.edu
- 3,R Butler, Jerry F. Ph.D., Cornell University, 1968. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Medical and veterinary entomology; acarology. Email: jfb@ifas.ufl.edu
- 3 Cabrera, Brian J. Ph.D., University of California-Riverside, 1998. UF/IFAS, Ft. Lauderdale REC, 3205 College Avenue, Ft. Lauderdale, FL 33314-7799. Urban entomology. Email: bcabrera@ufl.edu
- 3 Capinera, John L. Ph.D., University of Massachusetts, 1976. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. IPM; insect ecology, Department Chairman. Email: jlcap@ifas.ufl.edu
- 2,3,N Carlson, David A. Ph.D., University of Hawaii, 1970. USDA/ARS/CMAVE ,PO Box 110970, Gainesville, FL 32611-0970. Insect chemistry; pheromones, attractants, repellents, and behaviorally related chemicals; pesticide analysis, residues, metabolites, fate in environment. Email: dcarlson@gainesville.usda.ufl.edu
- 3 Cave, Ronald D. Ph.D., Auburn University, 1987. UF/IFAS, Indian River REC, 2199 S. Rock Road, Ft. Pierce, FL 34945-3138. Biological control of arthropods. Email: rdcave@ifas.ufl.edu
- 3 Cherry, Ronald H. Ph.D., University of Illinois, 1976. UF/IFAS, Everglades REC, PO Box 8003, Belle Glade, FL 33430-8003. Pest management on sugarcane. Email: pinesnpets@aol.com
- 3 Childers, Carl C. Ph.D., University of Missouri-Columbia, 1974. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850-2299. Acarology; biological control; citrus entomology. Email: ccchilders@ifas.ufl.edu
- Choate, Paul M. Ph.D., University of Florida, 1989. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Distance education, curation and classification of beetles, macro/micro photography of insects; webmaster of departmental web site. Email: pmc@ifas.ufl.edu
- 2,3 Cilek, James E. Ph.D., University of Kentucky. 1989. 4000 Fronkford Avenue, Panama City, FL 32405. Medical Entomology. Email: james.cilek@famu.edu
- 3 Connelly, Cynthia R. Ph.D., Louisiana State University, 1998. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Medical entomology. Email: crr@ifas.ufl.edu
- 3 Crow, William T. Ph.D., University of Florida, 1999. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Landscape plant nematology. Email: wtrc@ufl.edu
- 3 Cuda, James P. Ph.D., Texas A&M University, 1983. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Aquatic weed control. Email: jcuda@ifas.ufl.edu
- 2,R Dame, David A. Ph.D., University of Massachusetts, 1961. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Mosquito biology and control.

- 3 Daniels, Jaret C. Ph.D. University of Florida. 1999. UF/IFAS, Entomology and Nematology Department, PO Box 110620. Gainesville, FL 32611-0620. Insect Ecology and Conservation. Email: jcdnls@ufl.edu
- 2,R Davis, Dean F. M.S., University of Tennessee, 1949. UF/IFAS, Tropical Agriculture Research, 1022 McCarty Hall, PO Box 110200, Gainesville, FL 32611-0200. CBAG Program Manager; toxicology.
- 3 Day, Jonathan F. Ph.D., University of Massachusetts, 1981. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Mosquito surveillance and epidemiology. Email: jfda@ifas.ufl.edu
- 2,R Denmark, Harold A. M.S., University of Florida, 1953. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Acarology; Aphididae; Thysanoptera.
- 3 Dickson, Donald W. Ph.D., North Carolina State University, 1968. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Biology and control of nematodes. Email: dwd@ifas.ufl.edu
- 3 Duncan, Larry W. Ph.D., University of California-Riverside, 1983. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850-2299. Nematology. Email: lwduccan@ifas.ufl.edu
- 3 Ellis, James D., Jr. Ph.D., Rhodes University (Grahamstown, South Africa) 2004. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Sociobiology, Honey Bee Pathology, Ecology, and Behavior. Email: jdellis@ufl.edu
- 2,3 Edwards, Glavis B., Jr. Ph.D., University of Florida, Gainesville, 1980. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Spider identification.
- 1,3 Emmel, Thomas C. Ph.D., Stanford University, 1967. UF/IFAS, McGuire Center for Lepidoptera Research, PO Box 117800, Gainesville, FL 32611-8525. Population biology. Email: tcommel@ufl.edu
- 2 Epsky, Nancy D. Ph.D., University of Florida, 1991. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Chemical ecology and insect behavior. Email: nepsky@gainesville.usda.ufl.edu
- 2,R Esser, Robert P. Ph.D., University of Florida, 1980. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Nematology.
- Fasulo, Thomas R. M.S., University of Missouri-Columbia, 1978. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. General entomology, IPM, computer science. Email: fasulo@ufl.edu
- 2 Ferkovich, Stephen M. Ph.D., University of Wyoming, 1969. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect physiology and biochemistry emphasizing insect hormones in growth and development; methods of olfaction. Email: sferkovich@gainesville.usda.ufl.edu
- 1,3 Flowers, Ralph W. Ph.D., University of Wisconsin, 1975. Florida A&M University, Department of Entomology, Tallahassee, FL 32307. Ephemeroptera; Heptageniidae of the U.S.; taxonomy and biogeography of Central American mayflies. Email: rflowers@fam.ufl.edu
- 3 Foltz, John L. Ph.D., University of Michigan, 1969. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Forest insects: biology, population dynamics, control. Email: foltz@ifas.ufl.edu
- 3 Frank, J. Howard. Ph.D., Oxford University, 1967. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Population dynamics; predator-prey relationships; mosquito ecology; biology and taxonomy of Staphylinidae. Email: jhf@ifas.ufl.edu
- 3 Funderburk, Joseph E. Ph.D., Iowa State University, 1982. UF/IFAS, North Florida REC, Rt. 3, Box 4370, Quincy, FL 32351-9500. IPM on field crops. Email: jefunderburk@ifas.ufl.edu
- 2,3 Geden, Christopher J. Ph.D., University of Massachusetts, 1984. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Biocontrol; muscoid fly parasitoids. Email: cgeden@gainesville.usda.ufl.edu
- 2,3,R Gerberg, Eugene J. Ph.D., University of Maryland, 1954. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Medical entomology. Email: gene@ifas.ufl.edu

- 3 Goldstein, Paul Z. Ph.D., University of Connecticut, 1999. McGuire Center for Lepidoptera Research, PO Box 117800, Gainesville, FL 32611-8525. Email: pgoldstein@flmnh.ufl.edu
- 3 Giblin-Davis, Robin M. Ph.D., University of California-Davis, 1982. UF/IFAS, Ft. Lauderdale REC, 3205 S.W. College Avenue, Ft. Lauderdale, FL 33314-7799. Nematology. Email: giblin@ufl.edu
- 2,3,R Greany, Patrick D. Ph.D., University of California-Riverside, 1971. USDA/ARS/CMAVE. Physiology and behavior of host selection by entomophagous and phytophagous insects.
- 2,E Gupta, Santosh. Ph.D., University of Delhi, India, 1980. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Systematics of Ichneumonidae.
- 3,E Gupta, Virendra K. Sc.D, University of Michigan, 1960. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Taxonomy of Ichneumonidae. Email: vgupta@ifas.ufl.edu
- 3,E Habeck, Dale H. Ph.D., North Carolina State University, 1959. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Immature insects, especially Lepidoptera; biological control of weeds. Email: dhha@ifas.ufl.edu
- 3 Hahn, Daniel A. Ph.D., University of Arizona, 2003. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect physiology, biochemistry and evolutionary ecology Email: dahahn@ifas.ufl.edu
- 2 Halbert, Susan E. Ph.D., University of Illinois, 1979. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Virus vector; aphid biology; biological control; systematics.
- 3,N Hall, Donald W. Ph.D., University of Florida, 1970. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Medical entomology; insect pathology; Graduate Coordinator. Email: dwh@ifas.ufl.edu
- 3 Hall, H. Glenn. Ph.D., University of California-Berkeley, 1978. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Honey bee genetics. Email: hgh@ifas.ufl.edu
- 2,R Hamon, Avas B. Ph.D., Virginia Polytechnic Institute and State University, 1976. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Taxonomy and systematics of Coccoidea and Aleyrodidae.
- 2,3 Handler, Alfred M. Ph.D., University of Oregon, 1977. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Developmental genetics. Email: ahandler@gainesville.usda.ufl.edu
- 2,3 Heppner, John B. Ph.D., University of Florida, 1978. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Systematics of Lepidoptera.
- 2,N Hodges, Greg. Ph.D., University of Georgia, 2001. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Identification of scale insects and whiteflies, curator of collection.
- 2,3 Hogsette, Jerome A., Jr. Ph.D., University of Florida, 1979. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Control techniques of house flies and stable flies. Email: jhogsette@gainesville.usda.ufl.edu
- 3 Howard, F.W. Ph.D., Louisiana State University, 1975. UF/IFAS, Ft. Lauderdale REC, 3205 S.W. College Avenue, Ft. Lauderdale, FL 33314-7799. Biology of palm insects; taxonomy of armored scales; insect-host plant relationships; tropical and subtropical entomology. Email: fwhoward@ifas.ufl.edu
- 3 Hoy, Marjorie A. Ph.D., University of California-Berkeley, 1972. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Biological control. Email: mahoy@ifas.ufl.edu
- 2 Huang, Yong. Ph.D., University of Wisconsin, 1989. EPCOT Science, PO Box 10000, Lake Buena Vista, FL 32830-1000. Plant pathology, biochemistry, and botany. E mail: yong.huang@disney.com
- 1,3 Hubbard, Michael D. Ph.D., Florida State University, 1984. Florida A&M University, Agricultural Research Programs, Aquatic Entomology, Tallahassee, FL 32307. Aquatic entomology; biosystematics of Ephemeroptera. E-mail: Michael.hubbard@famu.edu
- 2 Kairo, Moses T.K. Ph.D. University of London, 1997. CAB International, Caribbean & Latin American Regional

Center, Gordon St., Curepe, Trinidad & Tabago. Biological control. Email: m.kairo@cabi.org

- 2,3 Kanga, Lambert. Ph.D. Texas A&M University, 1994. Florida A&M University (College of Engineering Sciences, Technology, and Agriculture, 406 Perry-Paige Bldg., Florida A&M University, Tallahassee, FL 32307. Insecticide Toxicology and IPM. Email: lambert.kanga@fam.u.edu
- 3 Kaufman, Phillip E. Ph.D. University of Wyoming, 1997. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Veterinary entomology. E-mail: pkaufman@ufl.edu
- 3,N Johnson, Freddie A. Ph.D., University of Florida, 1975. UF/IFAS, Office of District Directors, PO Box 110220, Gainesville, FL 32611-0220. Pest management on agronomic and fruit crops; apiculture. Email: faj@ifas.ufl.edu
- 3 Kern, William H. Ph.D., University of Florida, 1993. UF/IFAS, Ft. Lauderdale REC, 3205 S.W. College Avenue, Ft. Lauderdale, FL 33314-7799. Urban entomology. Email: whk@ufl.edu
- 3 Klassen, Waldemar. Ph.D., University of Western Ontario, Canada, 1963. UF/IFAS, Tropical REC, 18905 S.W. 280th Street, Homestead, FL 33031-3314. IPM, insect genetics; Center Director. Email: klassen@ifas.ufl.edu
- 2,3 Kline, Daniel L. Ph.D., North Carolina State University, 1975. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Medical and veterinary entomology. Email: dkline@gainesville.usda.ufl.edu
- 3 Koehler, Philip G. Ph.D., Cornell University, 1972. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Management urban, pasture, and veterinary pests; 4-H pest management program development; extension entomology. Email: pgk@ifas.ufl.edu
- 3 Lawrence, Pauline O. Ph.D., University of Florida, 1975. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Host-parasite co-evolution; behavioral, endocrinological, and biochemical interactions; reproductive physiology. Email: pol@ifas.ufl.edu
- 3 Leibee, Gary L. Ph.D., University of Kentucky. UF/IFAS, Mid-Florida REC, 2725 Binion Road, Apopka, FL 32703-8504. Pest management on vegetable crops; insecticide resistance. Email: glleibee@ifas.ufl.edu
- 3 Leppla, Norman C. Ph.D., University of Arizona, 1972. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Biocontrol; ecology; insect behavior. Email: ncl@ifas.ufl.edu
- 2 Lewis, W. Joe. Ph.D., Mississippi State University, 1968. USDA, Insect Biology and Population Management Research Laboratory, PO Box 748, Tifton, GA 31793-0748. Biological control.
- 3 Liburd, Oscar E. Ph.D., University of Rhode Island, 1997. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. IPM. Email: oeoliburd@ifas.ufl.edu
- 3,R Lloyd, James E. Ph.D., Cornell University, 1966. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Behavioral ecology of insects; systematics and behavior of Lampyridae. Email: jlloyd@ifas.ufl.edu
- 2 Lobinske, Richard. M.S., University of Florida 2001. UF/IFAS, Mid-Florida REC, 2725 Binion Road, Apopka, FL 32703-8504. Aquatic entomology.
- 3 Lord, Cynthia C. Ph.D., Princeton University, 1991. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Population dynamics. Email: ccl@ifas.ufl.edu
- 3 Lounibos, Leon P. Ph.D., Harvard University, 1974. UF/IFAS, Florida Medical Entomology Laboratory 200 9th Street S.E., Vero Beach, FL 32962-4657. Mosquito ecology and behavior. Email: lp@ifas.ufl.edu
- 2 Mankin, Richard W. Ph.D., University of Florida, 1979. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect ecology; insect bioacoustics; mating behavior. Email: rmankin@gainesville.usda.ufl.edu
- 3 Mannion, Catharine M. Ph.D., University of Florida, 1992. UF/IFAS, Tropical REC, 18905 S.W. 280th Street, Homestead, FL 33031-3314. Ornamental pests. Email: cmannion@ifas.ufl.edu
- 3 Maruniak, James E. Ph.D., University of Texas, 1979. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Genetic engineering; insect pathology. Email: jem@ifas.ufl.edu
- 3 McAuslane, Heather J. Ph.D., Texas A&M University, 1990. UF/IFAS, Entomology and Nematology Department,

- PO Box 110620, Gainesville, FL 32611-0620. Biochemical ecology and economic entomology. Email: hjmca@ufl.edu
- 3,R McCoy, Clayton W. Ph.D., University of California-Riverside, 1967. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850-2299. Biological control; invertebrate pathology; pest management. Email: cwmccoy@ifas.ufl.edu
- 3 McSorley, Robert. Ph.D., Purdue University, 1978. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Nematology. Email: rmcs@ifas.ufl.edu
- 2,R Mead, Frank W. Ph.D., North Carolina State University, 1968. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Systematics of auchenorrhynchous Hemiptera; Hemiptera: Heteroptera; Diptera: Culicidae.
- 2,3 Meagher, Robert L., Jr. Ph.D., Pennsylvania State University, 1985. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Integrated pest management and insect behavior. Email: rmeagher@gainesville.usda.ufl.edu
- 2,N Medal, Julio C. Ph.D., University of Arkansas, 1994. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Biological control of weeds. Email: medal@ifas.ufl.edu
- 3 Miller, Jacqueline Y. Ph.D., University of Florida, 1986. McGuire Center for Lepidoptera Research, PO Box 117800, Gainesville, FL 32611-8525. Lepidoptera systematics. Email: jmiller@flmnh.ufl.edu
- 1,3 Miller, Lee D. Ph.D., University of Pittsburgh, 1965. UF, McGuire Center for Lepidoptera Research, PO Box 117800, Gainesville, FL 32611-8525. Lepidoptera systematics. Email: lmiller@flmnh.ufl.edu
- 3 Mizell, Russell F., III. Ph.D., Mississippi State University, 1980. UF/IFAS, North Florida REC, Rt. 4, Box 4092, Monticello, FL 32344-9304. Pest management on pecans, woody ornamentals. Email: rfmizell@ifas.ufl.edu
- 3 Mores, Christopher N. Sc.D., Harvard University, 2002. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street, S.E., Vero Beach, FL 32962-4657. Medical Entomology. Email: cmores@ufl.edu
- 3,R Nation, James L. Ph.D., Cornell University, 1960. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect physiology. Email: jln@ifas.ufl.edu
- 3,R Nayar, Jai K. Ph.D., University of Illinois, 1962. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Physiology of insects of medical and veterinary importance: nutrition, development, aging, flight, mechanism of pathogen-transmission, epidemiology. Email: jknayar@ifas.ufl.edu
- 2,3 Nguyen, Ru. Ph.D., University of Florida, 1975. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Biological control on citrus.
- 3 Nigg, Herbert N. Ph.D., University of Illinois, 1972. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33980-2299. Toxicology; insect endocrinology. Email: hnnigg@ifas.ufl.edu
- 3 Noling, Joseph W. Ph.D., University of California-Riverside, 1981. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850-2299. Nematology. Email: jwnoling@ifas.ufl.edu
- 3 Nuessly, Gregg S. Ph.D., Texas A&M University, 1986. UF/IFAS, Everglades REC, PO Box 8003, Belle Glade, FL 33430-1101. Biological control; insect ecology. Email: gsn@ifas.ufl.edu
- 2,3,R O'Bannon, John H. Ph.D., Arizona State University, 1965. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Nematology.
- 1,3 O'Brien, Charles W. Ph.D., University of California-Berkeley, 1967. Florida A&M University, Department of Entomology, Tallahassee, FL 32307. Systematics (Curculionidae); ecology; biological control. Email: cobrien@fam.u.edu
- 3 O'Meara, George F. Ph.D., University of Notre Dame, 1969. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Mosquito ecology and physiology. Email: gfo@ifas.ufl.edu
- 2,3,R Oberlander, Herbert. Ph.D., Case Western Reserve University, 1965. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect physiology; endocrinology; tissue culture; developmental biology.

- 2,3 Oi, David H. Ph.D., University of California-Riverside, 1987. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. IPM on fire ants. Email: doi@gainesville.usda.ufl.edu
- Oi, Faith M. Ph.D., University of Florida, 1994. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Urban entomology, termites. Email: foi@ufl.edu
- 3 Osborne, Lance S. Ph.D., University of California-Davis, 1980. UF/IFAS, Mid-Florida REC, 2725 Binion Road, Apopka, FL 32703-8504. Pest management on ornamental plants, biological control of insects and mites. Email: lsoosborne@ifas.ufl.edu
- 3 Overholt, William A. Ph.D., Texas A&M University, 1989. UF/IFAS, Indian River REC, 2199 S. Rock Road, Ft. Pierce, FL 34945-3138. Biological control of weeds. Email: waoverholt@ifas.ufl.edu
- 2,3,R Patterson, Richard S. Ph.D., Cornell University, 1962. UF/IFAS, Urban Entomology Laboratory, PO Box 110620, Gainesville, FL 32611-0620. Medical entomology.
- 2,3 Park, Hyun-Woo. Ph.D., University of California – Riverside, 1999. John A. Mulrennan, Sr. Research Laboratory, Florida A&M University, 4000 Frankford Avenue, Panama City, Florida 32405. Entomopathogenic bacteria of mosquitoes. Email: hyun-woo.park@famu.edu
- 3 Peña, Jorge E. Ph.D., University of Florida, 1983. UF/IFAS, Tropical REC, 18905 S.W. 280th Street, Homestead, FL 33031-3314. Integrated pest management. Email: jepe@ifas.ufl.edu
- 2,3 Perkins, Peter V. Ph.D., University of Florida, 1982. 4607 N.W. 41st Street, Gainesville, FL 32606. Medical and veterinary entomology.
- 1,3 Pescador, Manuel L. Ph.D., Florida State University, 1976. Florida A&M University, Department of Entomology/Water Studies, Tallahassee FL 32307. Biosystematics; ecology; phylogeny; zoogeography.
- 2,3 Pettitt, Frederick L. Ph.D., University of Florida, 1988. The Land, EPCOT Center, PO Box 10000, Lake Buena Vista, FL 32830. IPM; biological control; applied ecology.
- 2,3 Porter, Sanford D. Ph.D., Florida State University, 1984. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Behavior and ecology of fire ants; medical entomology. Email: sporter@gainesville.usda.ufl.edu
- 3 Price, James F. Ph.D., Clemson University, 1977. UF/IFAS, Gulf Coast REC, 5007 60th Street E., Bradenton, FL 34203-9324. Pest management on ornamental plants. Email: jprice@ifas.ufl.edu
- 2 Reinert, John F. Ph.D., University of Florida, 1971. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Medical and veterinary entomology. Email: jreinert@gainesville.usda.ufl.edu
- 3 Rey, Jorge R. Ph.D., Florida State University, 1979. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962-4657. Wetlands ecology. Email: jrr@ifas.ufl.edu
- 3 Rich, Jimmy R. Ph.D., University of California-Riverside, 1976. UF/IFAS, North Florida REC, Rt. 3, Box 4370, Quincy, FL 32351-9500. Nematology. Email: jrich@ifas.ufl.edu
- 3 Rogers, Michael E. Ph.D., University of Kentucky, 2003. UF/IFAS, Citrus REC, 700 Experiment Station Road, Lake Alfred, FL 33850-2299. Integrated pest management of citrus pests. Email: mrogers@crec.ifas.ufl.edu
- R Sanford, Malcolm T. Ph.D., University of Georgia, 1977. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Apiculture.
- 3 Scharf, Michael E. Ph.D., Purdue University, 1997. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect toxicology. Email: mescharf@ifas.ufl.edu
- 3 Scheffrahn, Rudolf H. Ph.D., University of California-Riverside, 1984. UF/IFAS, Ft. Lauderdale REC, 3205 S.W. College Avenue, Ft. Lauderdale, FL 33314-7799. Biology and control of termites. Email: rhsc@ufl.edu
- 3 Schuster, David J. Ph.D., Oklahoma State University, 1973. UF/IFAS, Gulf Coast REC, 5007 60th Street E., Bradenton, FL 34203-9324. Pest management; host plant resistance to arthropods. Email: dschuster@ifas.ufl.edu

- 3 Seal, Dakshina R. Ph.D., University of Georgia, 1990. UF/IFAS, Tropical REC, 18905 S.W. 280th Street, Homestead, FL 33031-3314. Insect Ecology, IPM. Email: dseal@ifas.ufl.edu
- 2,3,R Seawright, Jack A. Ph.D., University of Florida, 1969. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Genetics; genetic control. Email: jseawright@gainesville.usda.ufl.edu
- 2,3 Shapiro, Jeffrey P. Ph.D., Cornell University, 1981. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect behavior and nutrition. Email: jshapiro@gainesville.usda.ufl.edu
- 2,3 Shirk, Paul D. Ph.D., Texas A&M University, 1978. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect endocrinology and molecular biology. Email: pshirk@gainesville.usda.ufl.edu
- 2,3 Silhacek, Donald L. Ph.D., University of Wisconsin, 1966. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect biochemistry: energy metabolism and hormonal control. Email: dsilhacek@gainesville.usda.ufl.edu
- 2,3 Shoemaker, David D. Ph.D., University of Georgia. 1995. USDA/ARS/CMAVE, PO Box 110880, Gainesville, FL 32611-0880. Imported Fire Ant and Household Insects. Email: dshoemak@gainesville.usda.ufl.edu
- 2,3 Sivinski, John. Ph.D., University of Florida, 1982. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Insect behavior and ecology. Email: jsivinsky@gainesville.usda.ufl.edu
- 3,R Slansky, Frank, Jr. Ph.D., Cornell University, 1974. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Ecology: nutritional ecology, insect-host interrelationships. Email: fsj@ifas.ufl.edu
- 3,E Smart, Grover C., Jr. Ph.D., University of Wisconsin, 1960. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Nematology. Email: gsmart@ufl.edu
- 3 Smartt, Chelsea. Ph.D. University of California (Irvine). 1995. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street, S.E., Vero Beach, FL 32962-4657. Molecular Biology and Biochemistry of Mosquitoes. Email: CSmartt@mail.ifas.ufl.edu
- 2,3,R Smittle, Burrell J. Ph.D., Rutgers University, 1964. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Radiation biology; medical entomology.
- 3 Sprengel, Richard K. Ph.D., University of Illinois, 1973. UF/IFAS, North Florida REC, Rt. 3, Box 4370, Quincy, FL 32351-9500. Extension pest management on agronomic crops. Email: rks@ifas.ufl.edu
- 2,3 Stange, Lionel A. Ph.D., University of California-Davis, 1965. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Biosystematics of Neuroptera especially Myrmeleontidae, and of Hymenoptera especially Eumenidae and Megachilidae; taxonomy.
- 3 Stansly, Philip A. Ph.D., Texas A&M University, 1985. UF/IFAS, Southwest Florida REC, PO Drawer 5127, Immokalee, FL 34143-5002. Integrated pest management. Email: pas@ifas.ufl.edu
- 2,3 Steck, Gary J. Ph.D., University of Texas, 1981. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Insect systematics; biological control; IPM; evolutionary ecology.
- 1,3 Stevens, Bruce R. Ph.D., Illinois State University, 1977. UF, College of Medicine, Department of Physiology and Functional Genomics, PO Box 100274, Gainesville, FL 32611-0274. Physiology and molecular biology. Email: stevens@phys.med.ufl.edu
- 3,R Stimac, Jerry L. Ph.D., Oregon State University, 1977. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Quantitative ecology; biological control; mathematical modeling; population ecology. Email: jls@ifas.ufl.edu
- 3 Su, Nan-Yao. Ph.D., University of Hawaii, 1982. UF/IFAS, Ft. Lauderdale REC, 3205 S.W. College Avenue, Ft. Lauderdale, FL 33314-7799. Biology and control of termites; structural and household pests. Email: nysu@ufl.edu
- 3 Tabachnick, Walter J. Ph.D., Rutgers University, 1974. UF/IFAS, Florida Medical Entomology Laboratory, 200 9th Street S.E., Vero Beach, FL 32962. Medical entomology; Center Director. Email: wjt@ifas.ufl.edu

- 2,3 Teal, Peter E.A. Ph.D., University of Florida, 1981. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Chemical ecology; biosynthesis of insect pheromones. Email: pteal@gainesville.usda.ufl.edu
- 2,3 Thomas, Michael C. Ph.D., University of Florida, 1985. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Insect taxonomy; Coleoptera.
- 2 Tomerlin, Arthur H., Jr. Ph.D., University of Florida, 1969. PO Box 950694, Lake Mary, FL 32795-0694. Insect and nematode pest management, pesticide regulations.
- 3 Tsai, James H. Ph.D., Michigan State University, 1969. UF/IFAS, Ft. Lauderdale REC, 3205 S.W. College Avenue, Ft. Lauderdale, FL 33314-7799. Insect vectoring; taxonomy. Email: jhtsai@ufl.edu
- 2,3 Tumlinson, James H., III. Ph.D., Mississippi State University, 1969. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Chemistry of insect pheromones and other biologically active natural products. Email: jtumlinson@gainesville.usda.ufl.edu
- 2 Valles, Steven M. Ph.D., University of Florida, 1995. USDA/ARS/CMAVE, PO Box 11970, Gainesville, FL 32611-0970. Insecticide resistance. Email: svalles@gainesville.usda.ufl.edu
- 2,3 Vander Meer, Robert K. Ph.D., Pennsylvania State University, 1972. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Chemical ecology. Email: bvandermeer@gainesville.usda.ufl.edu
- 3 Waddill, Van H. Ph.D., Clemson University, 1974. UF/IFAS, Tropical REC, 18905 S.W. 280th Street, Homestead, FL 33031-3314. Pest management on vegetable crops; Center Director. Email: vhwaddill@ifas.ufl.edu
- 3,E Walker, Thomas J. Ph.D., Ohio State University, 1957. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect behavior, ecology and systematics. Email: tjw@ifas.ufl.edu
- 3 Webb, Susan E. Ph.D., Cornell University, 1988. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Vectors of plant pathogens; pests of grapes; cucurbits. Email: sewe@ifas.ufl.edu
- 2,3 Wheeler, Gregory S. Ph.D., University of Florida. 1989. USDA/ARS, Invasive Plant Research Laboratory, 3205 College Avenue, Ft. Lauderdale, FL 33314. Nutritional and Chemical Ecology. Email: wheeler@ssa.ars.usda.gov
- 2,3,R Williams, David F. Ph.D., University of Florida, 1969. UF/IFAS, Urban Entomology Laboratory, PO Box 110620, Gainesville, FL 32611-0620. Medical entomology. Email: dwilliams@gainesville.usda.ufl.edu
- 1,3 Wilmott, Keith R. Ph.D. University of Florida. 1999. UF/IFAS, McGuire Center for Lepidoptera Research, PO Box 117800, Gainesville, FL 32611-8525. Systematics and Biology of Lepidoptera. Email: kwillmott@flmnh.ufl.edu
- 2,3,R Wojcik, Daniel P. Ph.D., University of Florida, 1975. USDA/ARS/CMAVE, PO Box 110970, Gainesville, FL 32611-0970. Medical entomology; fire ants. Email: dwojcik@gainesville.usda.ufl.edu
- 2,3,R Woodruff, Robert E. Ph.D., University of Florida, 1967. FDACS/DPI, PO Box 110980, Gainesville, FL 32611-0980. Systematics, especially Scarabaeidae; taxonomy.
- 2,3 Yu, Simon S.J. Ph.D., McGill University, 1968. UF/IFAS, Entomology and Nematology Department, PO Box 110620, Gainesville, FL 32611-0620. Insect toxicology. Email: sju@ifas.ufl.edu

Statistics Courses for Entomology-Nematology Graduate Students

Introductory. The two courses most commonly taken by IFAS students are STA-6166-67:

STA-6166 (Statistical Methods in Research I) is the standard entry-level graduate statistics course that is taught at most universities. It covers the basic topics of tests and confidence intervals about means, comparing means of two populations, one-way analysis of variance, contingency tables, a little applied probability, and introduction to regression. It usually has about 60 students, and is required of many majors in IFAS. No Stat majors take this class. The course has a stated pre-requisite of one course in statistics, but in fact many students have had no statistics previously.

STA-6167 (Statistical Methods in Research II) is the follow-up to STA-6166. It starts with regression analysis, and then moves to design of experiments. Design topics include randomized blocks, nested classifications, factorial experiments, and split plots. When time permits, some logistic regression is covered. Most students in this course are from IFAS.

Intermediate. After STA-6166-67 there are several courses that were originally designed for undergraduate statistics majors but have been given a 5000 number for non-statistics graduate students. These courses have a pre-requisite of one or more other courses and are good for students following STA-6166 or 6167, but require deeper interest in statistics. These are not theory courses.

STA-5223 (Applied Sample Survey Methods) is an introductory sampling course, but should not be taken without something like STA-6166 as a pre-requisite. It will be taught this fall by Mary Christman, who has been in IFAS Statistics for a little more than a year. She has an ecology background and will teach the course relevant to that perspective rather than the traditional human-subjects sampling perspective.

STA-5503 (Categorical Data Analysis) is an introductory course in categorical methods. It also should not be taken without the pre-requisite. It covers contingency tables, logistic regression and other regression models for categorical data. This course would be good for students who are modeling count data.

STA-5507 (Applied Nonparametric Methods) is an introduction to nonparametric but should not be taken without the pre-requisite (normally STA-6167). It covers the usual topics; Wilcoxon statistics, Kruskal-Wallis, etc.

STA-5701 (Applied Multivariate Methods) is an introduction to multivariate methods, and has pre-requisites of at least one other statistics course. This course has been popular among non-statistics majors in the last few years when Ken Portier taught it. Hopefully, someone in IFAS Statistics will pick it up and teach it relevant to ecology-natural resources students. It would probably be offered in the Spring semesters.

Theoretical. For students who are serious about modeling populations, I recommend a probability or mathematical statistics course. There are two very good courses, but have a

calculus pre-requisite.

STA-5325 (Fundamentals of Probability) covers probability distributions and their properties.

STA-5328 (Fundamentals of Statistical Theory) covers basic mathematical statistics, and provides the theoretical underpinnings for basic methods.

Other. There are a few courses that are designed as applied courses for statistics graduate majors, but are successfully taken by non-statistics majors who have strong quantitative backgrounds. They have mathematical statistics pre-requisites.

STA-6176 (Introduction to Biostatistics) covers methods for epidemiology, such as survival analysis and risk factors. It is taught from a human-subjects perspective, but the methods are relevant to other fields. Most of the students would be from statistics or public health.

STA-6207-08 (Regression Analysis and Design of Experiments) cover many of the same topics as STA-6166-67, but at a level appropriate for graduate students in statistics. About half of the classes are non-statistics majors.

Entomology, Nematology, Agricultural Life Sciences, and Pest Management Undergraduate Courses

COURSE #	TITLE	METHOD	CREDIT	TERM	LECTURE	LAB	INSTRUCTOR
ALS 2931	Thermal Biology (Honors)	Lec	3	F	MW 8-9		Hahn (Not for majors)
ALS 2931	Biology with Fireflies (Honors)	Lec	3	S, F	TR 8-9		Lloyd (Not for majors)
ALS 3153	Agricultural Ecology	Lec	3	F	MWF 3		McSorley
ALS 3203	PC Use in Agriculture	WWW	3	F, S, SS	Web only		Choate
IPM 3022	Fundamentals of Pest Management	Lec	3	S	MWF 5		Stimac
IPM 4254	Landscape Pest Mgmt	Lec	3	TBA	TBA		Giblin-Davis
PMA 4570C	Field Techniques in IPM	Lec	2	SS B	TR 2-3		Liburd
ENY 1001	Bugs and People	Lec	3	F, SS A	TR 2		Barfield (Not for majors)
ENY 2040	The Insects	Lec	3	F, S	MWF 3		D. Hall (Not for majors)
ENY 3005	Principles of Entomology	Lec CD	2	F, S, SS C F, S, SS C	TR 3		Staff Baldwin
ENY 3005L	Princ of Entomology Laboratory	Lab CD	1	F, S, SS C F, S, SS C		TBA	Staff Coon
ENY 3007C	Life Science	Lec	3	F, S, SS A	TR		Coon (Not for majors)
ENY 3030C	Insect Field Biology	Lec	3	SS B	MW 1-3		Hall
ENY 3163	Invertebrate Field Biology	Lec	3	SS B	MW 1-3		Branham
ENY 3222C	Biology and ID of Urban Pests	Lec & CD	3	SS A	MF 4	W 4-5	Koehler
ENY 3225C	Principles of Urban Pest Management	Lec & CD	3	SS A (even)	MF 4	W 4-5	Koehler
ENY 3228	Urban Vertebrate Pest Mgmt	Lec & CD	3	S, SS C	Ft. Laud		Kern
ENY 3541	Tree and Shrub Insects	Lec	3	TBA	Ft. Laud		Howard
ENY 3563	Tropical Entomology	Lec	3	SS A (odd)	MWF 2		Frank
ENY 3564L	Tropical Entomology Field Laboratory	Lab	2	SS B (odd)	TBA		Frank
ENY 3565	Tropical Hort Entomology	Lec	3	TBA	Ft. Laud		Howard
ENY 4161	Insect Classification	Lec CD	3	S F, SS C	T 2	TR 3-4	Choate Choate
ENY 4221	Termite Biology and Control	Lec. and Lab.	2	SS B	Ft. Laud	TBA	Kern/Scheffrahn
ENY 4228	Pesticide Application		VAR	F, S, SS			Koehler
ENY 4453	Behavioral Ecology and Systematic	Lec	3	S (odd)			Branham
ENY 4455	Social Insects	Lec	3	F	M 6-8	WF 6	G. Hall
ENY 4660	Medical and Veterinary Entomology	Lec CD	2	F F, S	MW 2	F 2-4	Kaufman Koehler
ENY 4660L	Medical and Veterinary Ent Laboratory	Lab CD	1	F F, S			Kaufman Koehler
ENY 4905	Problems in Entomology		5-Jan	F, S, SS	TBA		Staff
ENY 4909	Honors Project			F, S, SS	TBA		Staff
NEM3002C	Principles of Nematology	Poly Com	3	S (even)	All campus		Giblin-Davis

Graduate Courses

COURSE #	TITLE	METHOD	CREDIT	TERM	LECTURE	LAB	PROFESSOR
ALS 5136	Agricultural Ecology	Lec	3	F	M W F 3	M 4	McSorley
ALS 6046	Grant Writing	Lec	2	S SS C	M 6-7		Barfield
IPM 5205	Citrus Pest Management	Lec	3	S (odd)	Lake Alfred		Duncan
PMA 6228	Field Techniques in IPM	Lec	2	SS B	TR 2-3		Liburd
MCB 5505	General Virology	Lec	3	S	M W F 3		Maruniak
ENY 5006	Graduate Survey of Entomology	Lec	2	F, S,SS C	T R 3		Staff
		CD	2	F, S, SS c			Baldwin
ENY 5006L	Graduate Survey of Ent Laboratory	Lab	1	F, S, SS C		TBA	Staff
		CD	1	F, S, SS C			Baldwin
ENY 5031C	Insect Field Biology	Lec	3	SS B			Hall
ENY 5151C	Techniques in Insect Systematics	Lec	2	F (even)			Branham
ENY 5160C	Survey of Science with Insects	Lec	3	F, S, SS A			Baldwin (not for majors)
ENY 5222C	Biology and ID of Urban Pests	Lec & CD	3	SS A (even)	M F 4	W 4-5	Koehler
ENY 5226C	Principles of Urban Pest Management	Lec & CD	3	SS A (odd)	M F 4	W 4-5	Koehler
ENY 5228	Survey Urban Vert Pest Mgmt	Lec & CD	3	S, SS C	Ft.Laud		Kern
ENY 5231	Insect Pest and Vector Mgmt	Lec & DE	3	F,S,SS C	TBA		Capinera
ENY 5241	Biological Control	Lec	4	S (even)	T R 3	F 8-9	Frank
ENY 5245	Agricultural Acarology	Lec	2	SS B (odd)	TBA		Hoy
ENY 5164	Invertebrate Field Biology	Lec	3	SS B	M W 1-3		Branham
ENY 5566	Tropical Entomology	Lec	2	SS A (odd)	M W F 2		Frank
ENY 5564	Tropical Ent Field Lab	Lab	2	SS B (odd)	TBA		Frank
ENY 5611	Immature Insects	Lec	4	SS C	M W 4-6		Branham
ENY 5820	Insect Molecular Genetics	Lec & CD	2	TBA	TBA		Hoy
ENY 6166	Insect Classification	Lec	3	S	T 2	T R 3-4	Choate
		CD		F, S, SS C			Choate
ENY 6203	Insect Ecology	Lec & CD	3	F	M W F 4		McAuslane/McSorley
ENY 6203L	Insect Ecology Lab	Lec & CD	1	F		TBA	
ENY 6248	Termite Biology and Control	Lec and Lab	2	SS	Ft. Laud	TBA	Scheffrahn
ENY 6401C	Insect Physiology	Lec & CD	4	S	M W F 4		Hahn
ENY 6454	Behavioral Ecology and Systematics	Lec	3	S (odd)			Branham
ENY 6651C	Insect Toxicology	Lec	3	S	M W 3 TBA	M 6-8	Scharf Yu
ENY 6665	Adv Medical and Veterinary Entomology	Lec	3	F	M W 2		Kaufman
		CD					Koehler
ENY 6665L	Adv Med and Vet Ent Laboratory	Lec	1	F		F 2-4	Kaufman
		CD					Koehler
ENY 6821	Insect Pathology	Lec	3	F (even)	M W F 5	M 7-9	Boucias
ENY 6822C	Molecular Biology Techniques	Lec	4	SS A (even)	M T W R F	4-Jan	Maruniak

ENY 6905	Problems in Entomology		1-4; max 12	F, S, SS	TBA	-	Staff
ENY 6910	Supervised Research		1-5; max 5	F, S, SS	TBA		Staff
ENY 6932	Special Topics in Entomology		1-2; max 4	TBA			Staff
ENY 6934	Selected Studies in Entomology		1-4; max 8	F, S, SS	TBA		Staff
ENY 6940	Supervised Teaching		1-5; max 5	F, S, SS	TBA		Staff
ENY 6942	Insect Diagnostics	Lec & Lab	2	F	R 5-7		Buss
ENY 6943	Entomology Internship		1-3; max 6	F, S, SS	TBA		Staff (Not for majors)
ENY 6944	Entomology Extension Internship		1-3; max 6	F, S, SS	TBA		Staff (Not for majors)
ENY 6971	Masters Research		15-Jan	F, S, SS	TBA		Staff
ENY 7979	Advanced Research		12-Jan	F, S, SS	TBA		Staff
ENY 7980	Doctoral Research		15-Jan	F, S, SS	TBA		Staff
NEM 5002C	Graduate Survey of Nematology	Lec	3	S (even)			Giblin-Davis
NEM 5707C	Plant Nematology	Lec	3	F	M W 2	W 6-8	Dickson
NEM 6101C	Nematode Morphology and Anatomy	Lec	2	F (even)	R 6	R 7-8	Staff
NEM 6102C	Nematode Taxonomy and Systematics	Lec	3	S (odd)	F 6	F 7-9	Staff
NEM 6103	Insect Parasitic Nematodes	Lec	1	F	TBA		Staff
NEM 6104L	Insect Parasitic Nematodes Laboratory	Lab	1	F	TBA		Staff
NEM 6201	Nematode Ecology	Lec	3	F (odd)	M W F 7		McSorley
NEM 6708	Field Plant Nematology	Lec	2; max 4	S	TB		Crow
NEM 6905	Problems in Nematology		1-4; max 8	F, S, SS	TBA		Staff
NEM 6905	Nematode Identification	Lab	3-Jan	F, S, SS	TBA		Staff
NEM 6910	Supervised Research		5-Jan	F, S, SS	TBA		Staff
NEM 6931	Nematology Seminar		1; max 6	S	M 8-9		Staff
NEM 6932	Special Topics in Nematology		1-4; max 4	F, S, SS			Staff
NEM 6934	Selected Studies		1-4; max 4	F, S, SS	TBA		Staff
NEM 6940	Supervised Teaching		1-5; max 5	F, S, SS	TBA		Staff
NEM 6942	Nematode Diagnostics	Lec & Lab	2	F, S	F 5	F 2-4 or 6-8	Crow
NEM 6943	Nematode Internship		1-3; max 6	F, S, SS	TBA		Staff (Not for majors)
NEM 6944	Nematode Extension Internship		1-3; max 6	F, S, SS	TBA		Staff (Not for majors)
NEM 6971	Masters Research		15-Jan	F, S, SS	TBA		Staff
NEM 7979	Advanced Research		12-Jan	F, S, SS	TBA		Staff
NEM 7980	Doctoral Research		5-Jan	F, S, SS	TBA		Staff