

Distance Education Entomology Degree Tracks, with Course Requirements

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I. Master of Science (non-thesis) with specialization in Entomology (30 credits)*

Title of Program: **Master of Science with specialization in Entomology**

Description: The University of Florida's Entomology and Nematology Department offers an off-campus Master of Science degree (normally non-thesis but thesis programs are available by special arrangement) with a concentration in Entomology. Courses are offered via distance education to accommodate place-bound students interested in biological science with emphasis on insects and other arthropods, including extension agents and other educators; state and federal employees in agricultural, environmental and regulatory positions; consultants; pest control industry personnel; and others who want to further their education.

Degree: M.S. (non-thesis)

Expected time length to complete program: 30 credits, approximately 2-4 years

Delivery technology used: CD-ROM, web, video

Face-to-face location requirements: written and oral final exam(s) at University of Florida location

Admissions information: Starting dates in January, May and August

Prerequisites: A Bachelor's degree in a scientific discipline or at least two semesters of biology, one semester each of chemistry, algebra and trigonometry, and one semester of physics (recommended). Admission criteria include a B average or better for the last 2 years of the baccalaureate program, and satisfactory scores (total of 1000 in verbal and quantitative portions) of the General Test of the Graduate Record

Examination (GRE). Up to 9 graduate-level credits taken prior to formal admission may be transferred into the program to meet degree requirements.

Course options

- ENY 5006 Graduate Survey of Entomology (2)
- ENY 5006L Graduate General Entomology Laboratory (1)
- ENY 5212 Insects and Wildlife (3)
- ENY 6166 Insect Classification (3)
- ENY 6203 Insect Ecology (3)
- ENY 6203L Insect Ecology Laboratory (1)
- ENY 6401 Insect Physiology (3)
- ENY 6401L Insect Physiology Laboratory (1)
- ENY 5236 Insect Pest and Vector Management (3)
- ENY 5223 Biology and Identification of Urban Pests (3)
- ENY 5226 Principles of Urban Pest Management (3)
- ENY 5228 Graduate Survey of Urban Vertebrate Pest Management (2)
- ENY 5820 Insect Molecular Genetics (2)
- ENY 6651 Insect Toxicology (3)
- ENY 6665 Advanced Medical and Veterinary Entomology (3)
- ENY 6665L Advanced Medical and Veterinary Laboratory (1)

Other applicable courses:

- ENY 5212 Insects and Wildlife (3)
- ENY 5616 Turf and Ornamental Entomology (3)
- ALS 6166 Exotic Species and Biosecurity (3)
- STA 6166 Statistical Methods in Research (3)
- BCH 5045 Graduate Survey of Biochemistry (4)
- PLP 5005 Fundamentals of Plant Pathology (4)
- SWS 5305C Soil Microbial Ecology (3)
- NEM 5002C Principles of Nematology (3)
- AGR 6932 Principles of Pesticides (3)
- AGR 5511 Crop Ecology (3)

***Degree Requirements** are: ENY 5006, 5006L, 6166, 6401, 6401L, an applied entomology course; an ecology course, biochemistry or a molecular entomology course, a statistics course; to include at least 15 credits of ENY/NEM, and to total 30 credits.

II. Master of Science (non-thesis) with specialization in Pest Management (30 credits)*

Title of Program: **Master of Science with specialization in Pest Management**

Description: The University of Florida's Entomology and Nematology Department offers an off-campus Master of Science degree (normally non-thesis but thesis programs are available by special arrangement) with a concentration in Pest Management. Courses are offered via distance education to accommodate place-bound students interested in the principles and practices of interdisciplinary pest management, including extension agents and other educators; state and federal employees in agricultural, environmental and regulatory positions; consultants; pest control industry personnel; and others who want to further their education.

Degree: M.S. (non-thesis)

Expected time length to complete program: 30 credits, approximately 2-4 years

Delivery technology used: CD-ROM, web, video

Face-to-face location requirements: written and oral final exam at University of Florida location

Admissions information: Starting dates in January, May and August

Prerequisites: A Bachelor's degree in a scientific discipline or at least two semesters of biology, one semester each of chemistry, algebra and trigonometry, and one semester of physics (recommended). Admission criteria include a B average or better for the last 2 years of the baccalaureate program, and satisfactory scores (total of 1000 in verbal and quantitative portions) of the General Test of the Graduate Record

Examination (GRE). Up to 9 graduate level credits taken prior to formal admission may be transferred into the program to meet degree requirements.

Course options

ENY 5006 Graduate Survey of Entomology (2)
ENY 5006L Graduate General Entomology Laboratory (1)
ENY 6166 Insect Classification (3)
ENY 6203 Insect Ecology (3)
ENY 6203L Insect Ecology Laboratory (1)
ENY 5236 Insect Pest and Vector Management (3)
ENY 5820 Insect Molecular Genetics (2)
ENY 5223 Biology and Identification of Urban Pests (3)
ENY 5226 Principles of Urban Pest Management (3)
ENY 5228 Graduate Survey of Urban Vertebrate Pest Management (2)
ENY 6665 Advanced Medical and Veterinary Entomology (2)
ENY 6665L Advanced Medical and Veterinary Laboratory (1)
PLP 5005C Fundamentals of Plant Pathology (4)
NEM 5002C Principles of Nematology (3)
ENY 6651 Insect Toxicology (3)
PLS 4601 Principles of Weed Science

Other applicable courses:

ENY 5212 Insects and Wildlife (3)
ENY 5616 Turf and Ornamental Entomology (3)
ALS 6166 Exotic Species and Biosecurity (3)
AGR 6932 Principles of Pesticides
ALS 3203 PC Use in Agriculture (3)

STA 6166 Statistical Methods in Research (3)
BCH 5045 Graduate Survey of Biochemistry (4)
SWS 5234 Environmental Soil, Water and Land Use (3)
SWS 5305C Soil Microbial Ecology (3)
SWS 5720C GIS in Land Resource Management (3)
AGR 5511 Crop Ecology (3)

***Degree Requirements** are: ENY 5236, 5006, 5006L, 5228, 6166, 6651, PLP 5005 or PLS 4601, NEM 5002C, an ecology course, a statistics course; to include at least 15 credits of ENY/NEM, and total 30 credits.

Distance Education Non-Degree Certificate Programs

Please contact Dr. Phil Koehler (352-392-2484 or pgk@ufl.edu) with all questions about the urban pest management and pest control technology certificate programs

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The Department of Entomology and Nematology offers 3 college credit certificate programs. These certificates are designed for employees of the urban/landscape pest control industry, plant production industries, or other industries where pest management is an important issue, or for individuals who desire to work in these areas.

These courses can be taken at either the undergraduate level (courses numbered in the 3000's and 4000's) or graduate level (courses numbered in the 5000's or 6000's). If you anticipate transferring course credits to the distance education MS programs offered by the department (9 graduate level credits are transferable), you should take courses at the graduate level. The graduate level courses, though similar in content to the undergraduate level courses, require additional assignments. Listed below are the

recommended courses; others may be substituted with written permission of the department's undergraduate or graduate coordinators. Upon successful completion of the courses (with a C average or better), you will be issued a certificate attesting to your completion of the program.

Certificate in Urban Pest Management (choose 15 credits from this list of courses)

ENY 3005 or ENY 5006 Principles of Entomology or Graduate Survey of Entomology (2)
ENY 3005L or 5006L Principles of Entomology or Graduate Survey of Entomology Lab (1)
ENY 3225 or ENY 5226 Principles of Urban Pest Management (3)
ENY 3222 or ENY 5222 Biology and Identification of Urban Pests (3)
ENY 3228 or ENY 5228 Urban Vertebrate Pest Management (2)
ENY 5236 Insect Pest and Vector Management (3)
ENY 4161 or ENY 6166 Insect Classification (3)
ENY 4660 or ENY 6665 Medical and Veterinary Entomology (2) or Advanced Medical and Veterinary Entomology (3)
ENY 4660L or ENY 6665L Medical and Veterinary Entomology Laboratory (1)

Certificate in Landscape Pest Management (choose 15 credits from this list of courses)

ENY 3005 or ENY 5006 Principles of Entomology or Graduate Survey of Entomology (2)
ENY 3005L or 5006L Principles of Entomology or Graduate Survey of Entomology Lab (1)
ENY 3510 or ENY 5616 Turf and Ornamental Entomology (3)
ENY 3541 Tree and Shrub Insects (3)
ENY 4210 Insects and Wildlife (3)
ENY 5236 Insect Pest and Vector Management (3)
IPM 3022 or ENY 6905 Fundamentals of Pest Management (3)
IPM 4254 Landscape IPM: Ornamentals and Turf (3)
NEM 3002/5002C Principles of Nematology (3)
PLP 3002 or PLP 5005 Fundamentals of Plant Pathology (3/4)

Certificate in Pest Control Technology (choose 21 credits of course work selected from the certificates in Urban Pest Management and Landscape Pest Management, plus 3 credits of ENY4228, Pesticide Application - contact Dr. Koehler)

Certificate in Pest Control Technology: A “Certificate in Pest Control Technology” allows the certificate holder to qualify to take the FDACS exams for commercial pest control certification in the categories of General Household Pests (GHP), Wood-destroying Organisms(WDO), and Lawn and Ornamental (L&O). The certificate was designed to meet the requirements of Chapter 482 of Florida Statutes in order to qualify by way of education.

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