ENTOMOLOGY AND NEMATOLOGY

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.
More Info (http://registrar.ufl.edu/soc)

Courses

ALS 2160 Bioterrorism 3 Credits
Grading Scheme: Letter Grade
Bioterrorism directed against agriculture and human health has scientific (development of the threat agent, its deployment and mitigation), social and legal components. Discusses how threats may be alleviated and future attacks responded to, and how risk is best communicated to affected citizens.
Prerequisite: admission to the honors program.

ALS 2931 Agricultural Honors 1-4 Credits
Grading Scheme: Letter Grade
Various courses offered. (WR)
Prerequisite: refer to the department.
Attributes: Satisfies 6000 Words of Writing Requirement

ALS 3153 Agricultural Ecology 3 Credits
Grading Scheme: Letter Grade
Introduces the study of ecology from an agricultural perspective. Emphasizes ecological principles with examples and applications from agriculture.

ALS 3203 PC Use in Agriculture 3 Credits
Grading Scheme: Letter Grade
Introduces PC computer skills, file management, software application, hardware, purchasing one's own PC system. Focus is on the use of computers for preparing documents and presentations.

ALS 3163 Challenges in Plant Resource Protection 3 Credits
Grading Scheme: Letter Grade
Applied training in the regulatory aspects of plant protection, using real-world case studies, scenarios and issues.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L, or equivalent.

ALS 3161 Exotic Species and Biosecurity Issues 3 Credits
Grading Scheme: Letter Grade
Studies U.S. policies and programs affecting agricultural biosecurity as applied to current agricultural and extension and regulatory programs. Emphasis is on policies and procedures used to detect and report non-indigenous species. Students will develop the analytical capabilities to assess the consequences of agricultural biosecurity threats.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L, or equivalent.
Corequisite: HOS 3020C or ENY 3005/ENY 3005L or PLP 3002C.

ALS 4162 Consequences of Biological Invasions 3 Credits
Grading Scheme: Letter Grade
Non-native species invasions and environmental effects of these invaders. Students will develop analytical capabilities to assess the consequences of biological invasions.
Prerequisite: BSC 2010/BSC 2010L and BSC 2011/BSC 2011L, or equivalent.

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ENY 3222C Biology and Identification of Urban Pests 3 Credits
Grading Scheme: Letter Grade
Biology, behavior, ID and damage recognition of insect and vertebrate pests.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 3225C Principles of Urban Pest Management 3 Credits
Grading Scheme: Letter Grade
Methods of controlling household, structural and occasional pests with emphasis placed on cockroaches, termites and fleas.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 3228 Urban Vertebrate Pest Management 2 Credits
Grading Scheme: Letter Grade
The biology, ecology, health risks, exclusions and control of vertebrate pests in the urban environment.

ENY 3451C Insect Behavior 3 Credits
Grading Scheme: Letter Grade
Provides a theoretical and empirical overview of insect behavior, ranging from physiology underlying behavior to the evolution of behavioral diversity. Focuses on recent and current research on insect behavior, the diversity of approaches for studying it, and how this knowledge can be applied to solve human challenges.
Prerequisite: ENY 1001 or ENY 2040 or ENY 3005 or BSC 2005 or BSC 2010, or instructor permission.

ENY 3510C Turf and Ornamental Entomology 3 Credits
Grading Scheme: Letter Grade
Biology, identification and management of arthropods that infect turfgrass and ornamental plants in urban landscape and in nurseries and greenhouses.

ENY 3541C Tree and Shrub Insects 3 Credits
Grading Scheme: Letter Grade
Emphasizes biology and management options for the control of insect pests associated with woody plants.

ENY 3563 Introduction to Tropical Entomology 3 Credits
Grading Scheme: Letter Grade
Natural history, ecology and behavior of tropical insects in natural and agroecosystems. Designed for students without previous experience in tropics.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 3564L Tropical Entomology Field Laboratory 2 Credits
Grading Scheme: Letter Grade
A 10-day trip to a tropical country to study the insect faunas of natural and agroecosystems. Each student is assigned a field project.
Prerequisite: ENY 3563.

ENY 4161 Insect Classification 3 Credits
Grading Scheme: Letter Grade
Classification of major families of adult insects with emphasis on their identification, habitat and niche. A properly curated collection is required.
Prerequisite: ENY 3005 and ENY 3005L.
Attributes: General Education - Biological Science

ENY 4208 Ecology and Conservation of Pollinators 3 Credits
Grading Scheme: Letter Grade
Examines interactions between animals and the plants that they pollinate, current threats to pollinator populations, and the conservation of pollinators worldwide; explore these topics through readings, discussion, and a field research project.
Prerequisite: BSC 2010 and BSC 2010L or equivalents with minimum grades of C-, and junior standing or higher.

ENY 4210 Insects and Wildlife 3 Credits
Grading Scheme: Letter Grade
Introduces insects and other arthropods and their relationships with wild vertebrate animals.
Prerequisite: ENY 3005L or equivalent entomology laboratory.

ENY 4221 Termite Biology and Control 2 Credits
Grading Scheme: Letter Grade
Taxonomy, identification, behavior, ecology and methods of control for the economically important termites in the New World.

ENY 4230 Urban Pesticide Application 1-6 Credits
Grading Scheme: Letter Grade
Practical work experience in urban pesticide application; study pest management problems on campus and in residences.
Prerequisite: ENY 3005 and ENY 3005L.

ENY 4453 Behavioral Ecology and Systematics 3 Credits
Grading Scheme: Letter Grade
Introduces behavioral ecology and systematics of insects. (B)
Prerequisite: ENY 3005 and ENY 3005L.
Attributes: General Education - Biological Science

ENY 4455C Social Insects 3 Credits
Grading Scheme: Letter Grade
Introduces social wasps, bees, ants and termites: their natural history; social behavior; division of labor, caste differentiation, evolution, identification and rearing. Laboratory involves live insects.

ENY 4573 Beekeeping 3 Credits
Grading Scheme: Letter Grade
Biology of honey bees and the craft of apiculture; examines the natural history, biogeography, and ecology of honey bees. Topics include honey bee anatomy, physiology, colony social structure, pests/diseases, pollination ecology, management, and current topics in beekeeping.
Prerequisite: junior standing or higher.

ENY 4590C Mosquito Identification 3 Credits
Grading Scheme: Letter Grade
This modular course covers six critical areas of mosquito biology; classification, natural history and ecology, physiology, population dynamics, mosquito-borne diseases and control of mosquitoes. Students will understand the fundamental processes governing mosquitoes and mosquito-borne diseases.
Prerequisite: junior standing or higher.
ENY 4660 Medical and Veterinary Entomology 2 Credits  
**Grading Scheme:** Letter Grade  
Presents the major insect, mite and tick vectors of disease to man and animals. Topics include arthropod-transmitted diseases, the interaction between pathogens and the arthropod vector, and the mechanical damage that a parasite inflicts on its host. (B)  
**Prerequisite:** ENY 3005 and ENY 3005L.  
**Attributes:** General Education - Biological Science

ENY 4660L Medical and Veterinary Entomology Laboratory 1 Credit  
**Grading Scheme:** Letter Grade  
Identifying mosquitoes, ticks, lice, fleas and other disease vectors. Insect collection required. (B)  
**Corequisite:** ENY 4660.  
**Attributes:** General Education - Biological Science

ENY 4701 Forensic Entomology 3 Credits  
**Grading Scheme:** Letter Grade  
The role of arthropods in decomposition, in criminal and civil investigations and the increasing importance of science on society. Material and discussions deal with death and some may consider course images and concepts disturbing.

ENY 4900 Supervised Extension Experience in Entomology and Nematology 0-3 Credits  
**Grading Scheme:** S/U  
Firsthand, authentic extension experiences in entomology and nematology under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

ENY 4905 Problems in Entomology 1-5 Credits  
**Grading Scheme:** Letter Grade  
Problems in any field of specialization in entomology and nematology.  
**Prerequisite:** ENY 3005 and the basic course in selected specialization.

ENY 4911 Supervised Research in Entomology 0-3 Credits  
**Grading Scheme:** S/U  
Firsthand, authentic research in entomology under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application.  
**Prerequisite:** junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

ENY 4915 Honors Thesis Research in Entomology 0-3 Credits  
**Grading Scheme:** S/U  
Independent research in entomology leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)  
**Prerequisite:** junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

ENM 4905 Problems in Nematology 1-4 Credits  
**Grading Scheme:** Letter Grade  
Selected problems for study, research or discussion in nematology.

NEM 4911 Supervised Research in Nematology 0-3 Credits  
**Grading Scheme:** S/U  
Firsthand, authentic research in nematology under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)  
**Prerequisite:** junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

PMA 4570C Field Techniques in IPM 2 Credits  
**Grading Scheme:** Letter Grade  
Prerequisite: IPM 3022.