ENGLISH

992D*.

Seminar in Later English Literature 1660 to 1900

Fall. 3(3-0) May reenroll for a maximum of 6 credits. R: doctoral English permission of depart-

ment

British literature 1660-1990: c8ulture and society, periodization, genres QA: ENG 982

992E*.

Seminar in Twentieth Century English Literature

Spring. 3(3-0) May reenroll for a maximum of 6 credits. R. doctoral English

Twentieth Century literature of Great Britain, Ireland, and other Anglophone countries exclusive of

QA: ENG 984

992F*.

Seminar in American Literature to 1900

Fall, Spring. 3(3-0) May reenroll for a maximum of 9 credits. R: doctoral English permission of depart-

ment Special problems in American literature beginnings to 1900 QA: ENG 983

992G*.

Seminar in Twentieth Century American Literature
Fall, Spring. 3(3-0) May reenroll for

a maximum of 9 credits. R: doctoral permission of department

A particular problem, topic, theme, genre, issue, or period in twentieth century American literature QA: ENG 984

9927*.

Seminar in Literary Form and Theory

Fall, Spring. 3(3-0) May reenroll for a maximum of 6 credits. R: doctoral English permission of depart-

ment

Theories of periodization, genre, form, signification, and cultural production which influence the study of literature and language. QA: ENG 985

999*

Doctoral Dissertation Research Fall, Spring, Summer. 1 to 30 credits. May reenroll for a maximum of 50 credits. R: Approval of the Department

QA: ENG 999

ENTOMOLOGY

ENT

205* Pests, Society and Environment Fall, Spring. 3(3-0) Interdepartmental with the

Department(s) of Botany and Plant Pathology.

Nature of pests and their impact on society. Principles of integrated pest management and environmental quality QA: ENT 201 ENT 250

401*.

Directed Studies Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 8 credits.

R: Approval of department.

Individual field or laboratory research, or review of published literature, on a topic of interest.

404*. General Entomology

Fall, , Summer of even-numbered years. 4(03-04) P: BS 110.

Biological relationships of insects to the environment. Evolution, behavior, ecology, metamorphosis, classification, importance to humans, and pest management. QP: BS 212 QA: ENT 301 ENT 302 ENT 425

410*. Apiculture and Pollination Fall. 2(1-2)

Biology of bees and their relationship to flowers, pollination and crop production. QA: ENT 410

442*. Concepts of Biological Information

Systems
Spring. 3(03-00) Interdepartmental with the Department(s) of Computer Science. R: Seniors and Graduate Students

Systems approach toward managing biological information using computer technology.

QA: SYS 442 SYS 843

460*. Medical and Veterinary

Entomology Spring. 3(02-03) P: BS 110. R: Open only to juniors and

seniors.

Insects and other organisms related to human and animal health. Ectoparasites, ecology of vector-borne diseases, epidemiology, and management of arthropod vectors

QP: ENT 301 ENT 302

QA: ENT 460

470*. General Nematology Spring. 3(02-03) P: BS 110 or BS 111.

Biology of nematodes with special reference to the influence of phytoparasitic, entomopathogenic, animal parasitic, microbiotrophic and marine species on human ecology. QP: BS 210 ORBS 2110RBS 212 QA: ENT

470

477*. Pest Management 1: Pesticides in

Management Systems
Fall. 3(03-00) Interdepartmental with the Department(s) of Horticulture, Crop and Soil Sciences, Fisheries and Wildlife.

P: CEM 143, ENT 404 or ENT 470 or

BOT 405 or CSS 402 or FW 328
Broad overview of pesticide chemistry, efficient use, environmental fate and legislation.

QP: CEM 143 ANDHRT 4020RENT 425 NSC 445

478*. Pest Management II: Biological Components of Management

Systems
Spring. 3(02-03) Interdepartmental
with the Department(s) of Horticulture,
Crop and Soil Sciences, Fisheries and Wildlife, Forestry.
P: ENT 404 or ENT 470 or BOT 405 or
CSS 402 or FW 328

Principles of host plant resistance and biological control as they might affect design of agroecosystems. Introduction for classification of insect biological

control agents. QP: ENT 425 ORCSS 402ORENT 470 NSC 446

805*. Design and Management of IPM Systems

Fall. 3(02-02)

vention and non-chemical control.

R: Graduate Students or Approval of

Department Exploration of biological, ecological and sociological factors which can be exploited for Integrated Pest Management (IPM). Emphasis placed on design and management of environmental systems for pest pre-

Graduate Seminar Topics 812*. Fall, Spring. 1(1-0)

Current research topics. Student presentation required.

815* Insect Behavior

Fall of odd-numbered years. 3(02-03) P: ENT 404

Fundamentals of insect behavior with an emphasis on mechanisms and methods in modern quantitative behavior.

QP: ENT 301 ENT 302 QA: ENT 415

818* Systematics, Morphology, Biology: Adults

Spring of even-numbered years. 3(01-07) P: ENT 404

Classification, identification, morphology, biology and evolutionary relationships of adult insects. Specimens provided. QP: ENT 301 ENT 302

QA: ENT 418

838* Systematics, Morphology, Biology: Immatures

Fall of even-numbered years. 3(01-07) P: ENT 404

Classification, identification, morphology, biology and evolutionary relationships of immature insects, with emphasis on terrestrial holometabola. Collection required.

QP: ENT 418 QA: ENT 438

Insect Ecology and Evolution 844* Spring of odd-numbered years. 3(03-00)

P: ENT 404

Unique characteristics and principles of insect ecology and evolution including trophic relationships, community structure, speciation and coevolution. QĂ.: ENT 444

850*

Insect Physiology
Spring of odd-numbered years. 4(03-Ŏ2)

P: ENT 404, BCH or Organic CEM recom-

mended System by system description of insect form and function followed by examples of how physiological

systems are coordinated for complex biological functiona. QP: ENT 301 ENT 302CEMBCH QA: ENT

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851*.

Insect Molecular Biology Fall of odd-numbered years. 3(03-00) Interdepartmental with the Department(s) of Genetics. R: Graduate students Approval of De-

partment

Analysis of molecular processes unique to insects, and their potentials for genetic engineering. QA: ENT 851

870*.

Plant Nematology
Spring. 3(02-03) Interdepartmental
with the Department(s) of Botany and
Plant Pathology.

P: BOT 405 recommended

Study of the biology, host parasite relationships and management of 25 selected nematode diseases of economic plants. QP: BOT 405 QA: ENT 871

890*. Problems

Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 8 credits.

R: Graduate Students Advanced, individual study on a field or laboratory research topic or review of published literature on a topic of interest.