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# The University of Georgia

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College of Agricultural & Environmental Sciences  
*Office of Academic Affairs*

April 23, 2004

**Fax To:** Fiona Liken  
2-0435

**From:** David A. Knauff

**Subject:** Areas of Emphasis for Biological Sciences Major

This is to follow-up our letter on April 22 regarding Areas of Emphasis for the Biological Sciences Major.

For the Plant Science Area of Emphasis, please replace the 19 hours of Major Electives with the 24 hours required for the Area of Emphasis. Reduce the number of General Electives from 15-19 to 10-14.

For the Entomology Area of Emphasis, please replace the 19 hours of Major Electives with the 19 hours required for the Area of Emphasis. The 19 hours of Major Electives is to include PHYS1112-112L and 15 hours of additional course work.

Thank you for your assistance with this matter. Please feel free to contact our office if you need any further information.

DAK/egm

c: Joe Broder  
Mike Lacy  
Donn Shilling  
John Sherwood  
Joe McHugh

PROPOSAL FOR AN AREA OF EMPHASIS

School/College: College of Agricultural and Environmental Sciences

Department/Division: Interdisciplinary

Major: Biological Sciences

If major has more than one area of emphasis submit all areas of emphasis under one major together. A course may appear in more than one area of emphasis, but each area of emphasis should have a distinct focus.

Major Requirements: Attach a list of all courses required for the major.

Area of Emphasis Title (as it will appear in the Bulletin): Plant Sciences

Proposed starting date: August 2004

Area of Emphasis Description:

Include prefixes, numbers (must be 3000-4000 level); and titles of required courses; total credit hours (must be 12 or more hours); residency requirements (if any); and grade requirements (if any):

Justification:

The establishment of a Plant Science Area of Emphasis (AOE) is proposed in response to the University Administration's efforts to reduce the number of low-enrollment majors. Two programs in Crop Science and Plant Health have been deactivated because of the concerns. The curricula in these two programs were similar. The faculty in each department (Crop & Soil Sciences and Plant Pathology) have voted to create a single AOE in Plant Sciences that would logically be nested in Biological Sciences. This AOE will provide the only general curricula in plant sciences in the College of Agricultural and Environmental Sciences.

Signatures: Charles W. Munn Plant Pathology 3/16/04
D. Hally Crop & Soil Sciences 3/16/04
Department Head mprang Department 3/22/04 Date

Jennifer McHugh CAES 4/5/04
School/College Curriculum Committee Chair School/College Date

JTB
Dean G. L. ... School/College 2/20/04 Date

University Curriculum Committee Chair
Date

PROPOSED  
CURRICULUM REQUIREMENTS

PLANT SCIENCE AREA OF EMPHASIS  
Biological Sciences Major

PLANT SCIENCE AREA OF EMPHASIS (24 hrs\*)

1) Required Courses (11 hrs)

PHYS 1112-1112L (4 hrs), Physics-Electricity and Magnetism, Optics, Modern Physics  
CRSS 2010 (3 hrs), Crop Science  
CRSS 2010L (1 hr), Crop Science Laboratory  
PATH 3530-3530L (3 hrs), Introductory Plant Pathology

2) Also choose 13 hours from the following list.

CRSS(FORS) 3060-3060L (4 hrs), Soils and Hydrology  
CRSS 4040 (3 hrs), Plant Breeding  
CRSS(PBIO) 4210 (3 hrs), Seed Physiology  
CRSS(ENTO) 4250-4250L (3 hrs), Pesticide Management and Utilization  
CRSS 4260 (3 hrs), Forage Management and Utilization  
CRSS 4270 (1 hr), Seminar  
CRSS 4340 (3 hrs), Weed Science  
CRSS 4340L (1 hr), Weed Science Laboratory  
CRSS 4400 (3 hrs), Crop Ecology  
CRSS(HORT) 4590-4590L (4 hrs), Soil Fertility and Plant Nutrition  
CRSS(HORT)(ECOL)(ANTH) 4930 (3 hrs), Agroecology of Tropical America  
CRSS(HORT)(ECOL)(ANTH) 4931 (3 hrs), Agroecology of Tropical America Field Trip  
PATH(ANTH)(PBIO) 3010 (4 hrs), Fungi: Friends and Foes  
PATH(CRSS)(ENTO) 3500 (3 hrs), Turfgrass Pest Management  
PATH 4200-4200L (3 hrs), Introductory Mycology  
PATH 4280-4280L (4 hrs), Diagnosis and Management of Plant Diseases  
PATH 4300 (2 hrs), Clinical Plant Pathology  
PATH(ENTO) 4360 (3 hrs), Ornamental Pest Management  
PATH(CRSS)(ENTO) 4740-4740L (3 hrs), Integrated Pest Management  
PGEN 3580 (3 hrs), Principles of Genetics

\*PHYS 1112-1112L is already a required course in the major and is included for the purpose of demonstrating how the Plant Science Area of Emphasis will be depicted on a Degree Audit Graduation Sheet. The Plant Science Area of Emphasis is therefore actually comprised of 20 hours of plant sciences related courses.

## PROPOSAL FOR AN AREA OF EMPHASIS

School/College: Agricultural and Environmental Sciences

Department/Division: Interdisciplinary study

Major: Biological Science

If major has more than one area of emphasis submit all areas of emphasis under one major together. A course may appear in more than one area of emphasis, but each area of emphasis should have a distinct focus.

Major Requirements: Attach a list of all courses required for the major.

Please see attached sheets.

Area of Emphasis Title (as it will appear in the Bulletin): Entomology

Proposed starting date: August 1, 2004

Area of Emphasis Description:

Include prefixes, numbers (must be 3000-4000 level); and titles of required courses; total credit hours (must be 12 or more hours); residency requirements (if any); and grade requirements (if any):

Justification:

The establishment of an Entomology Area of Emphasis (AOE) is proposed in response to the University Administration's efforts to reduce the number of low-enrollment majors. Because the highly specialized field of Entomology is logically nested within the more general field of Biology, it seems appropriate that an Entomology AOE be established in the Biological Science major. In this way undergraduates can continue to come to the University of Georgia to study Entomology, without the Entomology program contributing to any problems associated with low-enrollment majors.

Signatures:

M.P. Ray Poultry Science / Biological Science 3-10-04  
Department Head Department Date

Joseph McHugh CAES 4/5/04  
School/College Curriculum Committee Chair School/College Date

DK Bill Chavhanen 22 April  
Dean School/College Date

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University Curriculum Committee Chair Date

**PROPOSED  
CURRICULUM REQUIREMENTS**

**ENTOMOLOGY AREA OF EMPHASIS  
Biological Sciences Major**

**Major Electives - 19 hours**  
PHYS 1112-1112L

**Fifteen hours of upper division courses in the College of Agricultural and Environmental Sciences**

***ENTOMOLOGY AREA OF EMPHASIS (15 hours)***  
**A grade of "C" or higher is required for the following courses**

ENTO 4000-4000L

Also choose from the following list. You may use a maximum of 4 credit hours of ENTO 4960 and 3 credit hours of ENTO 3900 and ENTO 4261.

ENTO 3140-3140L. Insect Natural History. 4 hours

(ENTO)CRSS(PATH) 3500. Turfgrass Pest Management. 3 hours

ENTO(BIOL)(ECOL)(EHSC)(LAND) 3590-3590L. Urban Entomology. 4 hours

ENTO 3650-3650L. Medical Entomology. 4 hours

ENTO 3740-3740L. Insect Pest Management. 4 hours

ENTO 3820-3820L. Forest Protection Entomology. 2 hours

ENTO 3900. Special Problems in Entomology. 1-3 hours

ENTO 4000/6000-4000L/6000L. General Entomology. 3 hours

ENTO 4010/6010-4010L/6010L. Insect Taxonomy. 5 hours

ENTO(EHSC) 4050-4050L. Biomonitoring: Freshwater Invertebrates. 4 hours

ENTO(EHSC) 4060-4060L. Ecotoxicology. 4 hours

(ENTO)BCMB(BTEC) 4200/6200. Biotechnology. 3 hours

ENTO(CRSS) 4250/6250-4250L/6250L. Pesticide Management and Utilization. 3 hours

(ENTO)ANTH(BIOL)(ECOL)(PBIO) 4260/6260-4260L/6260L. Natural History Collections  
Management. 4 hours

(ENTO)(ANTH)(BIOL)ECOL(EETH)(FORS)(GEOL)(PATH)(PBIO) 4261. Museum of Natural History Internship. 3 hours

ENTO 4300/6300-4300L/6300L. Bee Biology, Culture, and Management. 3 hours

ENTO 4350-4350L. Crop-Specific Insect Management. 4 hours

(ENTO)PATH 4360/6360. Ornamental Pest Management. 3 hours

ENTO 4400/6400-4400L/6400L. Insect Behavior. 3 hours

ENTO 4500-4500L. Biological Control of Pests. 3 hours

ENTO(CRSS)(PATH) 4740/6740-4740L/6740L. Integrated Pest Management. 3 hours

ENTO 4820/6820-4820L/6820L. Entomology in Natural Resources Management. 3 hours

ENTO 4960. Undergraduate Research in Entomology. 4 hours

ENTO 5730/7730-5730L/7730L. Entomology for Teachers. 3 hours