PROPOSAL FOR COURSE CHANGE

To: **Curriculum Committee**

From: **Agriculture Department**

Date submitted: NOVEMBER 2, 2007

Request for: Course change Course deletion Course addition X (Excluding course credit hour changes)

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Submitted by: Mike W. Fairbanks

Approved by:	Department Head: Willy Hack
Reviewed by:	Registrar: Sammy fluides Vice President:

If this is an addition of a new course, fill in the following and attach a syllabus (syllabus should include course objectives, and outline of the course with sufficient details to illuminate course content, and a bibliography. The Curriculum Committee/Graduate Council does not need evaluation and testing procedural information nor does it need excessively long bibliographies).

I. Catalog description: An introduction to insect diversity, evolution and biology with emphasis on identification of major families of insects. Prerequisites: AGPS 1003, Junior standing or consent of instructor.

Number: AGPM 3104

Title for Catalog: Introduction to Entomology

*Title for Course Inventory (24 characters):

Description: This course will introduce the student to insect diversity and the identification of the major families of insects. Laboratory time will be spent learning family characteristics and collecting and preserving insect specimens. couse fie Lecture will consist of topics such as insect diversity, morphology and physiology.

Effective date or term: Fall 2008

*Course fees: \$25

Justification and feasibility of course: 11.

> A. What is the need for this course? There has not been an entomology course taught at Arkansas Tech University in several years. This course will serve

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as a foundation to the pest management emphasis in the Department of Agriculture.

Who will take it? This course should have broad appeal and enroll students from biology, fisheries and wildlife, turf grass management and pest management.

- B. How does it relate to other work being offered by your department? Is there an overlap with other courses in the department? There is no overlap with other courses being offered. This course will be part of the pest management emphasis in the Department of Agriculture.
- C. Is this course part of any general plan of development within your department? Explain. This course will be part of the general plan to develop a pest management option to go along with the Agricultural Business degree to help prepare our students for job opportunities in the area of agricultural pest management.
- D. How often will the course be offered? Every Fall semester.
- E. How will the course be staffed? With current personnel.
- F. When applicable, state with which departments you have specifically coordinated this change? (If unable to identify coordinating departments that change affects, Academic Affairs can offer assistance in identifying course use.)

List Department Head/	Indicate Support	Date:	
Program Director Consulted:	for Proposal		
(Add to list as needed)	(yes/no)	111-	11-8-17
1. Dr. Theresa Herrick	nin Mull	1 jis	//- 0-0/
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5.			
If no please attach explanation from	responding Department Head indic	ating why the	v do not

If no, please attach explanation from responding Department Head indicating why they do not support the proposal.

*Note: Each new course proposal must include a short explanation describing how the new course integrates with the assessment process of the department in which the course will be taught.

This program will fit the department's assessment process by addressing the following objectives:

- Understand basic micro and macro principles as they relate to agriculture.
- Understand the basic principles of agricultural marketing and finance.
- Understand basic agri-business management principles and techniques of the agribusiness industry.
- Understand the basic principles in agricultural pest management
- Understand basic principles of soils and waste management in production agriculture.
- Have a basic knowledge of computer technology.

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Syllabus AGPM 3104 Introduction to Entomology (Lecture)

Course Description: An introduction to insect diversity, evolution and biology with emphasis on identification of major families of insects. Prerequisites: AGPS 1003, Junior standing or consent of instructor.

Course Objectives: Students should have working knowledge of the following subjects:

- 1. Ability to identify characteristics of major taxa of insects.
- 2. Understand the ecological importance of insects
- 3. Evolution and diversity of insects
- 4. Concept of beneficial and injurious insects

Textbook:

Johnson, N. F. and C. A. Triplehorn. 2004. *An introduction to the study of insects* (7 ed.). Saunders College Publishing.

Course Schedule:

<u>Week</u>	<u>Topic</u>
1.	Introduction to the class insecta
2.	Morphology, physiology and development
3.	Behavior and ecology
4.	Entognathous and apterygote insects
5.	Ephemeroptera, odonata, Grylloblattaria and Phasmida
6.	Orthoptera, Mantodea and Blattaria
7.	Isoptera, Dermaptera and Embiidina
8.	Plecoptera, Zoraptera, Psocoptera and Phthiraptera
9.	Hemiptera, Homoptera and Thysanoptera
10.	Neuroptera, Strepsiptera and Mecoptera
11.	Coleoptera
12.	Siphonaptera and Trichoptera
13.	Diptera
14.	Lepidoptera
15.	Hymenoptera
16.	Final exam

Syllabus AGPM 3104 Introduction to Entomology (Lab)

Course Description: An introduction to insect diversity, evolution and biology with emphasis on identification of major families of insects. Prerequisites: AGPS 1003, Junior standing or consent of instructor.

Course Objectives: Students should have working knowledge of the following subjects:

- 5. Ability to identify characteristics of major taxa of insects.
- 6. Understand the ecological importance of insects
- 7. Evolution and diversity of insects
- 8. Concept of beneficial and injurious insects

Textbook:

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Johnson, N. F. and C. A. Triplehorn. 2004. *An introduction to the study of insects* (7 ed.). Saunders College Publishing.

Course Schedule:

Week	<u>Topic</u>
1.	Collection, pinning and preservation of insects
2.	Entognathous and apterygote insects
3.	Ephemeroptera, odonata, Grylloblattaria and Phasmida
4.	Orthoptera, Mantodea and Blattaria
5.	Collection
6.	Isoptera, Dermaptera and Embiidina
7.	Plecoptera, Zoraptera, Psocoptera and Phthiraptera
8.	Hemiptera, Homoptera and Thysanoptera
9.	Collection
10.	Neuroptera, Strepsiptera and Mecoptera
11.	Coleoptera
12.	Siphonaptera and Trichoptera
13.	Collection
14.	Diptera
15.	Lepidoptera
16.	Hymenoptera