

**College of Agricultural Sciences and Natural Resources
Curriculum Committee
Summary of Actions
September 18, 2015**

¹ Faculty Action

Unit Title and Number	Type of Action Requested Courses (new, revisions, deletions, ACE certification and recertification)	Approved CASNR	Approved CASNR Faculty	Approved UCC	Approved Graduate Council
ENTO 300 - Toxins in the Environment	<p>Deletion When Offered ENTO 300. Toxins in the Environment (BIOS 300, NRES 300) (3 cr) Lec 3. Prereq: One semester BIOS and one semester CHEM. Introduction to the principles of toxicology as they apply to environmental contaminants, agri-chemicals, and industrial and naturally occurring chemicals.</p>	9/18/15			
ENTO 308 - Management of Field Crop Insects	<p>Deletion When Offered ENTO 308. Management of Field Crop Insects (3 cr) Prereq: BIOS 101 and 101L or permission; ENTO 115 recommended. Injurious and beneficial insects and pest management practices associated with field crop insects and mites.</p>	9/18/15			
ENTO 309 - Career Experience	<p>Deletion When Offered ENTO 309. Career Experience (1-3 cr, max 4) Prereq: Junior standing; introductory courses in entomology; and permission prior to enrolling. P/N only. Course must be concluded with preparation of a written report. Career experience in applied practices is provided via employment with an entomology-related agency, business or industry, research, extension, or teaching activity.</p>	9/18/15			
ENTO 400 - Biology and Classification of Insects	<p>Deletion When Offered ENTO 400. Biology and Classification of Insects (4 cr) Lec 3, lab 3. Prereq: ENTO 115 or graduate standing. Survey of orders and common families of insects with emphasis on biology, ecology, and phylogeny. Sight recognition of major orders and families, identification of other families with keys. Insect collection required.</p>	9/18/15			
ENTO 401/801 - Insect Physiology	<p>Deletion When Offered ENTO 401/801. Insect Physiology (3 cr) Lec. Prereq: CHEM 251 or CHEM 255; 12 hrs entomology or biological sciences (zoology). Functions and other phenomena associated with the major organ systems of insects; the cuticle, nervous, circulatory, digestive, metabolism, nutrition, locomotion, reproduction, respiration, and growth and development.</p>	9/18/15			

<p>ENTO 402/802 - Aquatic Insects</p>	<p>Deletion When Offered ENTO 402/802. Aquatic Insects (BIOS 485/885, NRES 402/802) (2 cr) Lec 2. Prereq: 12 hrs biological sciences. Biology and ecology of aquatic insects.</p>	<p>9/18/15</p>			
<p>ENTO 402L/802L - Identification of Aquatic Insects</p>	<p>Deletion When Offered ENTO 402L/802L. Identification of Aquatic Insects (BIOS 485L/885L, NRES 402L/802L) (1 cr) Lab. Prereq: Parallel ENTO 802, NRES 402/802, BIOS 485/885. Identification of aquatic insects to the family level.</p>	<p>9/18/15</p>			
<p>ENTO 403/803 - Management of Horticultural Crop Insects</p>	<p>Deletion When Offered ENTO 403/803. Management of Horticultural Crop Insects (3 cr) Lec 3. Prereq: Introductory biology course. The biology, ecology and management of insect pests of horticultural crops such as vegetables, fruit trees, trees and shrubs, greenhouse crops, turf and ornamentals. Employing Integrated Pest Management (IPM) strategies to maintain pests below damaging levels while minimizing the use of traditional insecticides.</p>	<p>9/18/15</p>			
<p>ENTO 406/806 - Insect Biology</p>	<p>Deletion When Offered ENTO 406/806. Insect Ecology (BIOS 406/806) (3 cr) Lec 3. Prereq: BIOS/NRES 220 and 222. Biotic and abiotic factors as they influence insect development, behavior, distribution, and abundance.</p>	<p>9/18/15</p>			
<p>ENTO 410/810 - Insects as Educational Tools in the Classroom</p>	<p>Deletion When Offered ENTO 410/810. Insects as Educational Tools for the Classroom (3 cr) Lec 2, lab 2. Prereq: Introductory entomology course. Overview of insects. Insect diversity, insect structure and function, insect ecology and behavior, and the beneficial and detrimental roles insects play. Integrating the study of insects into the classroom to enhance science education.</p>	<p>9/18/15</p>			
<p>ENTO 412/812 - Entomology and Pest Management</p>	<p>Deletion When Offered ENTO 412/812. Entomology and Pest Management (3 cr) Prereq: Introductory course in ENTO. Principles and practices of managing insect pests. Pest management theory, use of sampling, evaluation, and tactics, types of insect pests, and current issues.</p>	<p>9/18/15</p>			
<p>ENTO 414/814 - Forensic Entomology</p>	<p>Deletion When Offered ENTO 414/814. Forensic Entomology (FORS 414/814) (3 cr) Lec 3. Prereq: Introductory course in entomology. Application of entomology to legal issues. Criminal investigations, insects of forensic importance, insect succession on carrion, and case studies.</p>	<p>9/18/15</p>			

ENTO 415/815 - Medical Entomology	Deletion When Offered ENTO 415/815. Medical Entomology (3 cr) Lec. Prereq: Introductory course in ENTO. Direct and indirect importance of insects in human medicine. Principles of arthropod-borne disease, medically important arthropod groups, and arthropod-transmitted diseases.	9/18/15			
ENTO 800 - Insect Biodiversity	Deletion When Offered ENTO 800. Insect Biodiversity (4 cr) Lec 3, lab 3. Prereq: 12 hrs. of biological sciences, graduate standing and ENTO 116 or equivalent for entomology majors. Classification, taxonomy, and biology of adult insects. Identification of orders and families of insects using keys. Collection required using techniques for collecting, preparing, and curating. One oral/written term paper required.	9/18/15			
ENTO 801L - Insect Physiology Lab	Deletion When Offered ENTO 801L. Insect Physiology Lab (1 cr) Lab. Prereq: CHEM 251 or CHEM 255; 12 hrs. entomology or biological sciences (zoology). Must also register for required lecture ENTO 801. Functions and other phenomena associated with the major organ systems of insects; the cuticle, nervous, circulatory, digestive, metabolism, nutrition, locomotion, reproduction, respiration, and growth and development.	9/18/15			
ENTO 813 - Biological Control of Pests	Deletion When Offered ENTO 813. Biological Control of Pests (PLPT 813) (3 cr) Lec 3. Prereq: 12 hrs biological sciences and/or agricultural sciences Principles and practices of using natural enemies and antagonists to manage the abundance of pests and reduce economic losses.	9/18/15			
ENTO 817 - Pest Management Systems	Deletion When Offered ENTO 817. Pest Management Systems (3 cr) Prereq: 10 hrs entomology and crop production courses or permission Different philosophies and theories of insect pest management, theory vs. reality of management, interactions of public and private sectors, development and implementation of pest management programs.	9/18/15			
ENTO 819 - Insect Behavior	Deletion When Offered ENTO 819. Insect Behavior (3 cr) Lec 3. Prereq: Introductory course in entomology. The process of behavioral study involves investigating the relationship between animals and their surroundings, and their response to their kin and to other organisms. Topics include characterizing how insects find and defend their resources, how they avoid predators, how they find mates, how they mate, and how some exist in highly ordered social settings.	9/18/15			
ENTO 820 - Insecticide Toxicology	Deletion When Offered ENTO 820. Insecticide Toxicology (3 cr) Lec 3. Prereq: 12 hrs biological sciences; 4 hrs organic chemistry Principles of toxicology, insecticide classification, mode of action, metabolism and consequences of insecticide use.	9/18/15			

ENTO 825 - Management of Agronomic Crop Insects	Deletion When Offered ENTO 825. Management of Agronomic Crop Insects (3 cr) Lec 3. Prereq: An introductory entomology course. Identification, biology, ecology and management of insect pests of agronomic crops such as corn, soybeans, sorghum, wheat, and alfalfa. Integrated Pest Management (IPM) strategies employed to maintain pests below damaging levels while minimizing the use of traditional insecticides.	9/18/15			
ENTO 826 - Scientific Illustration	Deletion When Offered ENTO 826. Scientific Illustration (AGRI 826) (3 cr) Ind. Prereq: 12 hrs agricultural and/or biological sciences. Prepare scientifically accurate, high quality illustrations and graphics for the teaching, presentation, and publication of scientific information. Drawing techniques, drafting, copyright, and publication and presentation of scientific art work.	9/18/15			
ENTO 905 - Seminar in Entomology	Deletion When Offered ENTO 905. Seminar in Entomology (1 cr, max 8) Presentation of topics in entomology or related subjects.	9/18/15			
ENTO 915 - Presentation Methods	Deletion When Offered ENTO 915. Presentation Methods (3 cr) Lec, lab. Prereq: Permission. This course prepares entomology graduate students to give scientific and public presentations. It includes instruction in preparing posters and on-screen shows, image editing, finding entomological resources in libraries and on the internet, insect photography, and public speaking. Students develop a portfolio of their work, and they make two 12- and one 30-minute presentations to their classmates.	9/18/15			
NRES 492/892 - Study Tours in Natural Resource Management	Change of Title and Description NRES 492/892. <u>International Study Tours in Natural Resource Management</u> (1-3 cr, max 6) Lec. Prereq: Permission. <i>Off-campus travel may be required. Choice of subject matter and coordination of on- and off-campus study is at the discretion of the instructor.</i> Group educational tours to sites that illustrate <u>the diversity of approaches to natural resources management found around the world.</u>	9/18/15			
New degree programs, options, specializations, certificates, minors (undergraduate and graduate)					
None					
Curriculum Committee Approval Only: Substitution/waivers, student appeals, bulletin copy (format, consistency, accuracy, editorial), operating procedures for the curriculum committee					
None					

Informational Items: Tabled items, calendar of meetings and deadlines, changes in membership, program changes in degree program that do not include the college core, ACE assessment reports

Tabled: STAT 810, 850, 951, 980, 981, 982, 983, 984.

Discussed the need for a syllabus template.

Ashley Hall, Chair will be leaving UNL in November. Rick Stowell, Vice Chair, will assume the position. A Vice-Chair will be solicited.

¹ If you have specific questions or concerns; please visit with your CASNR Curriculum Committee Representative to discuss the specific agenda item.

Any unit or group of at least five (5) faculty may challenge a decision of the Committee that requires faculty action by filing a written objection. The unit administrator will coordinate the written response to the Dean by October 5, 2015. Unless the concerns can be resolved with clarification, revision and/or withdrawal and re-submission, the matter in question will be brought before the full faculty for discussion, debate and vote. If no written objections are properly filed, the action will be considered approved by the College faculty and either implemented or forwarded to the appropriate University Committee (University Curriculum Committee, Graduate Council and/or Academic Planning Committee) with the faculty recommendation for approval.

² The CASNR Curriculum Committee serves as the Parent Unit for the following degree programs:

B.S. in Applied Science, B.S. in Forensic Science, B.S. in Integrated Science, Master of Applied Science and Doctor of Plant Health.



No approval needed

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