

# UNIVERSITY FACULTY SENATE FORMS

## Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

**Submitted by:** Deborah Delaney      **phone number:** 302-831-8883

**Department:** Entomology and Wildlife Ecology      **email address:** dadelane@udel.edu

**Date:** September 25, 2013

**Action:**

Revise Entomology Major

**Effective term:** 14F

**Current degree:** Bachelor of Science

**Proposed change leads to the degree of:** Bachelor of Science

**Proposed name:** Insect Ecology and Conservation

**Revising or Deleting:**

**Undergraduate major / Concentration:** Entomology

**Undergraduate minor:** \_\_\_\_\_  
(Example: African Studies, Business Administration, English, Leadership, etc.)

**Graduate Program Policy statement change:** \_\_\_\_\_  
(**Must attach** your Graduate Program Policy Statement)

**Graduate Program of Study:** \_\_\_\_\_  
(Example: Animal Science: MS Animal Science: PHD Economics: MA Economics: PHD)

**Graduate minor / concentration:** \_\_\_\_\_

**Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.**

**List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?**

(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter "None")

The following new courses will expand the breadth of the Insect Ecology and Conservation undergraduate major. Therefore both new courses will be developed as 300 level courses aimed

at linking introductory courses (ENWC 205 and 215) and the more advanced ENWC courses at the 400/600 level.

### **Insects in Agricultural and Urban Environments**

This course will serve as an introduction into applied topics in entomology, delving into timely issues associated with insects in human managed systems. This course will build upon topics briefly mentioned in the introductory ENWC 205 course, Insects and Society, and serve as a conduit to the more advanced ENWC courses like ENWC 411 (Integrated Pest Management) and ENWC 419 (Biological Control).

### **Insect Ecology and Conservation**

This class will expose majors to a broad array of topics that showcase how insects interact with the physical environment. This class will equip students with a knowledge base suitable for careers in insect biology and ecology in the field as well as in a laboratory.

**Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: <http://www.ugs.udel.edu/gened/>**

The impetus behind the new curriculum was to change the once taxonomically focused curriculum to a set of courses that have a broader appeal to young scientists, reflecting the themes, issues and career opportunities that will be present and available to our students upon completion of their degree. The emphasis of this new program is the interface between insects and other living organisms and systems. At the core of the new curriculum is a structured foundational section which will provide students with a solid footing into the entomological sciences. Four additional focus groups have been developed that offer the students many course options within four specific areas, insects, plants, communication skills and politics and culture. These focal areas are geared towards creating a holistic program that will prepare students for careers in the natural disciplines. The new curriculum meets each one of the 10 goals of undergraduate education.

*Goal #1 is to “attain effective skills in oral and written communication, quantitative reasoning, and the use of information technology.”*

The new format of the curriculum contains a Group 3 (communication skills) designed to equip students with skills in oral and written communication, specifically devoting 9 credit hours to goal number one.

*Goal #2 is to “Learn to think critically to solve problems.”*

The hand selected courses available within each of the different focus groups all strive to meet goal number two. Meeting this goal is imperative for our students who will be learning how to manage and steward our resources in an ecological context in a world exhibiting exponential human population growth.

*Goal #3 is to “be able to work and learn both independently and collaboratively.”*

This new curriculum also provides more options across disciplines enhancing the opportunity to increase collaborations and integrate disciplines. Also many of the courses offered in the new focus areas are reputed for their collaborative nature and team oriented structure in terms of assignments and work plans.

*Goal #4 is to “engage questions of ethics and recognize responsibilities to self, community, and society at large.”*

Group 4 (Policy and Culture focus) of the new curriculum provides course options containing content intended to challenge students and allow them a platform on which to synthesize

scientific concepts and cultural views. Many of the themes of the courses offered in this focus group are highly contentious and will help students understand alternate viewpoints.

*Goal #5 is to “understand the diverse ways of thinking that underlie the search for knowledge in the arts, humanities, sciences and social sciences.”*

The themes reflected within the focal groups of the new curriculum are timely and cover a broad range of disciplines while still emphasizing insect biology and ecology in the foundation. The intent behind the expanding the curricular options is to provide our students with a unique skillset that will allow them to compete on the job market with students from other top-rated entomology programs. By incorporating courses focused on insects, plants, culture and policy and encouraging the honing of oral and written skills our students will be able to approach up and coming environmental issues more holistically. This holistic approach will allow them to be adaptable and respond appropriately to a dynamic stakeholder base and scientific community.

The last five goals are supported through college and university requirements as well as electives. Together with the new changes outlined in this proposed curriculum our students will be better prepared to meet the challenges of our changing environment and will have a better understanding of social, cultural, global, aesthetic, environmental, and intellectual aspects of the world we live in.

**Identify other units affected by the proposed changes:**

(Attach permission from the affected units. If no other unit is affected, enter “None”)

See Attached at the end of document.

Department of Applied Economics and Statistics, Titus Awokuse [kuse@udel.edu](mailto:kuse@udel.edu)

Department of Biological Sciences, Randall Duncan [rlduncan@udel.edu](mailto:rlduncan@udel.edu) and David Usher [dusher@udel.edu](mailto:dusher@udel.edu)

Department of Communication, Jennifer Lambe [jlambe@udel.edu](mailto:jlambe@udel.edu)

Department of Plant and Soil Sciences, Blake Meyers [meyers@dbi.udel.edu](mailto:meyers@dbi.udel.edu)

Center for Energy and Environmental Policy, John Byrne [jbyrne@udel.edu](mailto:jbyrne@udel.edu)

The Department of English, John Ernest [jrernest@udel.edu](mailto:jrernest@udel.edu)

Department of Geography, Tracy DeLiberty [tracyd@udel.edu](mailto:tracyd@udel.edu)

School of Public Policy and Administration, Leadership, Maria Aristigueta [mariaa@udel.edu](mailto:mariaa@udel.edu)

The Philosophy Department, Kai Draper, [kai@udel.edu](mailto:kai@udel.edu)

Department of Political Science and International Relations, Gretchen Bauer [gbauer@udel.edu](mailto:gbauer@udel.edu)

College of Arts and Sciences: Theater, Joann Browning [jbrownin@udel.edu](mailto:jbrownin@udel.edu)

## **Describe the rationale for the proposed program change(s):**

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

As the University Delaware is one of less than a dozen universities still offering an undergraduate major in the study of insects we feel we have a unique opportunity to rebrand our major and increase the breadth of classes, which will in turn draw a more diverse pool of high quality students. We also are renaming the major to Insect Ecology and Conservation which aptly reflects the emphasis of the new curriculum and more accurately reflects the type of careers our students will be applying for.

## **Program Requirements:**

(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and **include a side-by-side comparison** of the credit distribution before and after the proposed change.)

Below is the revised curriculum and attached is the side-by-side comparison of the old and new curricula.

DEGREE: BACHELOR OF SCIENCE

MAJOR: INSECT ECOLOGY AND CONSERVATION

### **CURRICULUM CREDITS**

See University and College requirements.

### **MAJOR REQUIREMENTS**

A minimum grade of C- is required for all ENWC credits used to satisfy departmental requirements.

#### *Foundation*

MATH 115, 221, or 241 Pre-Calculus I, Analytic Geometry and Calculus A 3-4

APEC 135 Intro to Data Analysis or CISC 101 Principles of Computing 3

STAT 200 Basic Statistical Practice 3

BISC 207 Intro Biology I 4

BISC 208 Intro Biology II 4

BISC 302 General Ecology 3

BISC 495 Evolution 3

CHEM 103 General Chemistry 4

CHEM 104 General Chemistry 4

ENWC 201 Wildlife Conservation and Ecology 3

ENWC 205 Insects and Society 3

ENWC 215 Insects and Society Lab 1

ENWC 311 Insects in Agricultural and Urban Environments 3

ENWC 346 Insect Ecology and Conservation 3

ENWC 405 Insect Anatomy and Physiology 4

ENWC 406 Insect Identification-Taxonomy 3

ENWC 456 Conservation Biology 3

#### *Group I- Insect Focus:*

*9 Credits: Choose from any combination of the following but 6 credits must be from ENWC courses with an insect focus (denoted with an \*)*

ANSF 300 Principles of Animal and Plant Genetics 3

BISC 306 General Physiology 3

BISC 312 Field Ecology 3

BISC 321 Environmental Biology 3

BISC 324 Invertebrate Zoology 4

BISC 403 Genetic and Evolutionary Biology 3

\*ENWC 214 Apiology and Apiculture 2

\*ENWC 224 Apiology and Apiculture Laboratory 1

\*ENWC 314 Comparative Terrestrial and Marine Ecology 3

\*ENWC 408 Insect Field Taxonomy 3

\*ENWC 410 Medical, Veterinary and Forensic Entomology 3  
\*ENWC 411 Insect Pest Management 3  
\*ENWC 419 Biological Control 3  
\*ENWC 602 Larval Taxonomy 3  
\*ENWC 620 Behavioral Ecology 3  
ENWC 635 Population Ecology 3

*Group II- Plant Focus*

PLSC 101 or 201 Botany I or Botany II 3-4

*6 Credits: Choose from any combination of the following*

PLSC 133 Ornamental Horticulture 3  
PLSC 151 Introduction to Crop Science 3  
PLSC 170 or 204 Soils and Environmental Quality or Intro to Soil Science 3  
PLSC 212 or PLSC 214 or PLSC 404 Woody Plants or Indigenous Woody Plants of the Eastern U.S. or Plant Taxonomy 3-4  
PLSC 302 Vegetable Science 4  
PLSC 303 Introductory Plant Pathology 4  
PLSC 419/619 Soil Microbiology 4

*Group III- Communication Skills Focus: 9 credits from the following*

*Choose at least one of the following*

ENGL 301 Expository Writing 3  
ENGL 307 News Writing and Editing 3  
ENGL 309 Feature and Magazine Writing 3  
ENGL 312 Written Com. In Business 3  
ENGL 410 Technical Writing 3  
ENGL 413 Topics in Professional Writing 3  
UNIV 402 Senior Thesis (Completed) 3

*Choose at least one of the following*

COMM 212 Oral Com. In Business 3  
COMM 350 Public Speaking 3  
LEAD 209 Presentation Strategies 3  
THEA 204 Intro to Voice and Speech 3

*Group IV- Policy and Culture Focus*

*3 Credits: Choose one of the following*

APEC 100 Sustainable Development 3  
APEC 406 Agricultural and Natural Resource Policy 3  
APEC 343 Economics of Environmental Management 3  
APEC 450 Topics in Environmental Law 3  
ENEP 410 Political Economy of the Environment 3  
ENEP 426 Climate Change: Science, Policies & Political Economy 3  
ENWC 413 Wildlife Policy and Administration 3  
ENWC 450 Debates in Conservation Biology 3  
ENWC 453 Community Based Conservation 3  
GEOG 230 Humans and Earth Ecosystems 3  
GEOG 235 Conservation of Natural Resources 3  
GEOG 236 Conservation: Global Issues 3  
GEOG 240 Environment and Behavior 3  
GEOG 341 Climate and Climate Change 3  
GEOG 342 Bioclimatology 3  
PHIL 448 Environmental Ethics 3  
POSC 350 Politics and the Environment 3

**ELECTIVES**

Beyond required courses, sufficient credits must be taken to meet the minimum credit required for the degree. Calculus, organic chemistry, biochemistry, geographic information systems, and physics are strongly recommended. Only two credits of BHAN 120 activity or performing music may be counted toward the degree.

CREDITS TO TOTAL A MINIMUM OF 124

**ROUTING AND AUTHORIZATION:** (Please do not remove supporting documentation.)

Department Chairperson \_\_\_\_\_ Date \_\_\_\_\_

Dean of College \_\_\_\_\_ Date \_\_\_\_\_

Chairperson, College Curriculum Committee \_\_\_\_\_ Date \_\_\_\_\_

Chairperson, Senate Com. on UG or GR Studies \_\_\_\_\_ Date \_\_\_\_\_

Chairperson, Senate Coordinating Com. \_\_\_\_\_ Date \_\_\_\_\_

Secretary, Faculty Senate \_\_\_\_\_ Date \_\_\_\_\_

Date of Senate Resolution \_\_\_\_\_ Date to be Effective \_\_\_\_\_

Registrar \_\_\_\_\_ Program Code \_\_\_\_\_ Date \_\_\_\_\_

Vice Provost for Academic Affairs & International Programs \_\_\_\_\_ Date \_\_\_\_\_

Provost \_\_\_\_\_ Date \_\_\_\_\_

Board of Trustee Notification \_\_\_\_\_ Date \_\_\_\_\_

Revised 02/09/2009 /khs

Current Program  
DEGREE: BACHELOR OF SCIENCE  
MAJOR: ENTOMOLOGY

Proposed Changes to the Program  
MAJOR: INSECT ECOLOGY AND CONSERVATION

### CURRICULUM CREDITS

See University and College requirements.

### MAJOR REQUIREMENTS

A minimum grade of C- is required for all ENWC credits used to satisfy departmental requirements.

### PROFESSIONAL STUDIES

MATH 115 Pre-Calculus 3  
ANFS 300 Principles of Animal and Plant Genetics 3  
BISC 207 Introductory Biology I 4  
BISC 208 Introductory Biology II 4  
BISC 302 General Ecology 3  
CHEM 103 General Chemistry 4  
CHEM 104 General Chemistry 4  
APEC 135 or CISC 101 Intro to Data Analysis 3  
ENWC 205 Elements of Entomology 3  
ENWC 215 Entomology Lab 1

ENWC 405 Insect Structure and Function 4  
ENWC 406 Insect Identification-Taxonomy 3  
ENWC 465 Senior Capstone Experience 1  
ENWC\_\_\_\_  
ENWC\_\_\_\_

**Must include one regularly scheduled course with content focused on insects**

### FOUNDATION COURSES

Moved ANFS 300 to GROUP 1  
Added BISC 495 Evolution

Changed ENWC 205 Insects and Society  
Changed ENWC 215 Insects and Society Lab  
Added ENWC 201 Wildlife Conservation  
Added ENWC 311 Insects in Agricultural and Urban Environments

Added ENWC 346 Insect Ecology and Conservation  
Changed ENWC 405 Insect anatomy and Physiology  
Added ENWC 456 Conservation Biology  
Deleted last two open ENWC requirements

### ADDED GROUP 1 (INSECT FOCUS) 9 Credits:

**Choose from any combination of the following but 6 credits must be from ENWC courses with an insect focus (denoted with an \*)**

Added ANFS 300 Principles of Animal and Plant Genetics  
Added BISC 306 General Physiology  
Added BISC 312 Field Ecology  
Added BISC 321 Environmental Biology  
Added BISC 324 Invertebrate Zoology  
Added BISC 403 Genetic and Evolutionary Biology  
\* Added ENWC 214 Apiology and Apiculture  
\* Added ENWC 224 Apiology and Apiculture Laboratory  
\* Added ENWC 324 Comparative Terrestrial and Marine Ecology  
\* Added ENWC 408 Insect Field Taxonomy  
\* Added ENWC 410 Medical, Veterinary and Forensic Ent  
\* Added ENWC 411 Insect Pest Management  
\* Added ENWC 419 Biological Control  
\* Added ENWC 602 Larval Taxonomy  
\* Added ENWC 620 Behavioral Ecology  
Added ENWC 635 Population Ecology

**Nine credit hours from any combination of the following:**

PLSC 151 Intro. to Crop Science 3  
PLSC 201 Botany II 4

PLSC 204 Intro. To Soil Science 3

PLSC 211 Herbaceous Landscape Plants 3  
PLSC 212 Woody Landscape Plants 4  
PLSC 303 Introductory Plant Pathology 4  
PLSC 404 Plant Taxonomy 3  
BISC 3\_\_ or 4\_\_ (not 302 or 321) 3-9

**ADDED GROUP 2 (PLANT FOCUS) 9 Credits, \* indicates one of these courses must be chosen**

\*Added PLSC 101 or 201 Botany I or II

**6 credits: choose from any combination of the following**

Added PLSC 133 Ornamental Horticulture  
Added PLSC 170 Soils and Environmental Quality  
Added PLSC 214 Indigenous Woody Plants  
Added PLSC 302 Vegetable Science  
Added PLSC 419/619 Soil Microbiology

Deleted BISC 3\_\_ or BISC 4\_\_ requirements

**ADDED GROUP 3 (COMMUNICATION FOCUS) 9 credits from the following**

**Choose at least one of the following**

Added ENGL 301 Expository Writing  
Added ENGL 307 News Writing and Editing  
Added ENGL 309 Feature and Magazine Writing  
Added ENGL 312 Written Comm. in Business  
Added ENGL 410 Technical Writing  
Added ENGL 413 Topics in Professional Writing  
Added UNIV 402 Senior Thesis (Completed)

**Choose at least one of the following**

Added COMM 212 Oral Comm. in Business  
Added COMM 350 Public Speaking  
Added LEAD 209 Presentation Strategies  
Added THEA 204 Intro to Voice and Speech

**ADDED GROUP 4 (POLICY AND CULTURE FOCUS) 3Credits**

**Choose one of the following**

Added APEC 100 Sustainable Development  
Added APEC 406 Agricultural and Natural Resource Policy  
Added APEC 343 Economics of Environmental Management  
Added APEC 450 Topics in Environmental Law  
Added ENEP 410 Political Economy of the Environment  
Added ENEP 426 Climate Change: Science, Policies & Political Economy  
Added ENWC 413 Wildlife Policy and Administration  
Added ENWC 450 Debates in Conservation Biology  
Added ENWC 453 Community Based Conservation  
Added GEOG 230 Humans and Earth Ecosystems  
Added GEOG 235 Conservation of Natural Resources  
Added GEOG 236 Conservation: Global Issues  
Added GEOG 240 Environment and Behavior  
Added GEOG 341 Climate and Climate Change  
Added GEOG 342 Bioclimatology  
Added PHIL 448 Environmental Ethics  
Added POSC 350 Politics and the Environment

**ELECTIVES**

Beyond required courses, sufficient credits must be taken to meet the minimum credits required for the degree. Calculus, organic chemistry, biochemistry, geographic information systems, and physics are strongly recommended. Only two credits of BHAN 120 activity or performing music may be counted toward the degree.

**CREDITS TO TOTAL A MINIMUM OF 124**



Hi Debbie,

As APEC dept. chair, I am supportive of the revisions to your Entomology major, which includes several of our courses in group 4 focus area of the revised major. The proposed revisions looks good and should help to better attract new students to the major.

Best,

Titus

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Titus O. Awokuse  
Professor and Chair  
Dept. of Applied Economics & Statistics  
213 Townsend Hall  
University of Delaware  
Newark, DE 19716  
Phone: [302-831-1323](tel:302-831-1323)  
Website: [http://www.udel.edu/FREC/awokuse/web/TOA\\_Homepage.htm](http://www.udel.edu/FREC/awokuse/web/TOA_Homepage.htm)

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**From:** Deborah Delaney <[dadelane@udel.edu](mailto:dadelane@udel.edu)>

**Date:** Thursday, October 3, 2013 3:15 PM

**To:** Titus Awokuse <[kuse@udel.edu](mailto:kuse@udel.edu)>

**Subject:** FW: Permission to list courses

Hello Titus,

I forgot one. We would also like to list APEC 100 in the group 4 as well. Please let me know your thoughts regarding this request.

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

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**From:** Deborah Delaney  
**Sent:** Thursday, October 03, 2013 3:09 PM  
**To:** Titus Awokuse  
**Subject:** Permission to list courses

Hi Debbie,

You have my department's permission to include the courses you listed, with the following exceptions. PLSC 319 Envir. Soil Microbiology has been dropped from our offerings. I suggest that you include PLSC 419/619 Soil Microbiology instead. It is taught every other year. Also delete from the list PLSC 308 Fruit Science. It will be dropped from our offerings shortly and has not been taught in the last ten years. Also PLSC 101 Botany 1 is now three credits and Botany lab, PLSC 104, is one credit. Students can take 101 and opt out of taking the lab. Botany 2 remains four credits with the lab is included. Lastly, delete PLSC 304. It no longer exists.

On 10/3/2013 4:04 PM, Blake Meyers wrote:

Dear Debbie,

Thanks for your email about this. I've cc'ed Dave Frey, who is our departmental guru of all things curriculum and teaching related (and assistant chair, for that reason). While I don't see any issues with this, Dave knows the ins-and-outs of curriculum & classes far better than I, so it's his word that matters.

best,  
Blake

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**From:** "Deborah Delaney" <[dadelane@udel.edu](mailto:dadelane@udel.edu)>  
**To:** [meyers@dbi.udel.edu](mailto:meyers@dbi.udel.edu)  
**Sent:** Thursday, October 3, 2013 3:41:38 PM  
**Subject:** Permission to list courses

Dear Dr. Meyers,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked at the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list the following courses for our Group 2 (Plant Focus).

*Group II- Plant Focus (a total of 9 credits)*

PLSC 101 or 201 Botany I or Botany II 4

*6 Credits: Choose from any combination of the following*

PLSC 133 Ornamental Horticulture 3

PLSC 170 or 204 Soils and Environmental Quality or Intro to Soil Science 3

PLSC 212 or PLSC 214 or PLSC 404 Woody Plants or Indigenous Woody Plants of the Eastern U.S. or Plant Taxonomy 3-4

PLSC 302 Vegetable Science 4

PLSC 303 Introductory Plant Pathology 4

PLSC 304 Soil Plant Microbiology 4

PLSC 308 Fruit Science 3

PLSC 319 Environmental Soil Microbiology 4

Changes from the old curriculum are the addition of PLSC 101, PLSC 133, PLSC 170, PLSC 214, PLSC 302, PLSC 304, PLSC 308 and PLSC319. Students have to complete a total of three courses from this group, one of them restricted to PLSC 101 or PLSC 201. Would it be acceptable to your Department to list these courses for our Group 2 focus area?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology& Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

Hi Debbie,

Please feel free to list our ENEP 410 and 426.

We are grateful to have courses by Chris Williams as option courses in our major!

Regards, John

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John Byrne, Director and  
Distinguished Professor of  
Energy and Climate Policy  
Center for Energy &  
Environmental Policy  
University of Delaware  
Newark, DE 19716-7301 USA

Phone: (302) 831-8405  
FAX: (302) 831-3098

Website: <http://ceep.udel.edu/>  
Biosketch: <http://ceep.udel.edu/Bios/Byrne.pdf>

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John Byrne, Director and  
Distinguished Professor of  
Energy and Climate Policy  
Center for Energy &  
Environmental Policy  
University of Delaware  
Newark, DE 19716-7301 USA

Phone: (302) 831-8405  
FAX: (302) 831-3098

Website: <http://ceep.udel.edu/>  
Biosketch: <http://ceep.udel.edu/Bios/Byrne.pdf>

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On Thu, Oct 3, 2013 at 2:45 PM, Deborah Delaney <[dadelane@udel.edu](mailto:dadelane@udel.edu)> wrote:

Dear Dr. Byrne,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked to the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list ENEP 410 and 426 as part of our Group 4 along with 14 other courses. Students only have to complete one course from this group. Because of the large number of courses offered in this group, I don't expect large requests for any one course in this group. Would it be acceptable to your department to list these courses in our Group 4 focus area?

Sincerely,

Debbie

Hi Deborah, we will be pleased for you to include that class in your list of Group 4 courses.

Gretchen Bauer

Professor and Chair

Department of Political Science and IR

University of Delaware

302 831 2357

[www.udel.edu/poscir](http://www.udel.edu/poscir)

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**From:** Deborah Delaney [dadelane@UDel.Edu]

**Sent:** Thursday, October 03, 2013 4:18 PM

**To:** Bauer, Gretchen M

**Subject:** Permission to list course

Dear Dr. Bauer,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked at the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list POSC 350 in our Group 4 along with 15 other courses. Students only have to complete one course from this group. Because of the large number of courses offered in this group, I don't expect large requests for any one course in this group. Would it be acceptable to your department to list these courses in our Group 4 focus area?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

Sounds great to me! Thanks, Maria

Maria P. Aristigueta  
Director, School of Public Policy and Administration  
Charles P. Messick Professor of Public Administration  
Vice President, American Society for Public Administration  
(302) 831-4570  
[www.sppa.udel.edu](http://www.sppa.udel.edu)  
<http://www.ipa.udel.edu/directory/homepages/aristigueta.html>

**From:** Deborah Delaney [<mailto:dadelane@UDel.Edu>]  
**Sent:** Thursday, October 03, 2013 3:48 PM  
**To:** Aristigueta, Maria P  
**Subject:** Permission to list course

Dear Dr. Aristigueta,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked at the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list LEAD 209 as part of our Group 3 along with 11 other courses. We are a small but enthusiastic major with no more than one or two new majors each year. Is this listing acceptable to your department?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

Hello Debbie,

We can accommodate the small number of students of about two a year in COMM212 and/or COMM350. But, if the number of majors increases dramatically, we hope you will alert us. These classes are high demand and we might have to revisit this requirement.

Elizabeth M. Perse  
Professor and Chair  
Department of Communication  
University of Delaware  
Newark, DE 19716  
302.831.8041  
[www.udel.edu/communication](http://www.udel.edu/communication)

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**From:** Deborah Delaney [[dadelane@udel.edu](mailto:dadelane@udel.edu)]  
**Sent:** Friday, October 04, 2013 11:53 AM  
**To:** Jenny Lambe  
**Cc:** Perse, Elizabeth M.  
**Subject:** RE: Permission to list courses

Hello Dr. Lambe and Dr. Perse,

Thank you Jenny for sending this along. Let me know if you have any questions.

Sincerely,

Debbie

**Deborah A. Delaney Ph.D.**  
Assistant Professor  
University of Delaware  
Entomology and Wildlife Ecology  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

**From:** Jenny Lambe [<mailto:jenny.lambe@gmail.com>]  
**Sent:** Friday, October 04, 2013 10:45 AM  
**To:** Deborah Delaney  
**Cc:** Perse, Betsy  
**Subject:** Re: Permission to list courses

Hi, Debbie:

I am no longer serving as chair of our department -- I was just filling in for a year while Dr. Betsy Perse was on sabbatical. I have copied her on this e-mail and she will be able to answer your questions.

Best,  
Jenny

On Thu, Oct 3, 2013 at 9:19 PM, Deborah Delaney <[dadelane@udel.edu](mailto:dadelane@udel.edu)> wrote:  
Dear Dr. Lambe,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked to the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list the following courses for our Group 3 (Communications Focus): COMM 212 and COMM 350.

Students only have to complete at most two COMM courses from this focus. Because of the large number of courses offered in this group (12 total), I don't expect large requests for any one course. We are a small but enthusiastic major with no more than one or two new majors each year. Are these listings acceptable to your department?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
[302-831-8883](tel:302-831-8883)

--

Jennifer L. Lambe  
Associate Professor, Dept. of Communication  
Senior Fellow, Center for Political Communication  
University of Delaware  
250 Pearson Hall  
Newark, DE 19716  
e-mail: [Jenny.Lambe@gmail.com](mailto:Jenny.Lambe@gmail.com)  
phone: 302-831-8028  
fax: 302-831-1892

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Dear Dr. Delaney,

I see no problem with this, and in fact I'd love for the English Department to be supportive of your efforts. I'm copying Dr. George Miller, Associate Chair of the English Department, who oversees our undergraduate programs, so that he can note whether he sees any reason for concern here.

Best of luck with the redesigned major.

John

John Ernest, Chair  
Department of English  
University of Delaware  
208 Memorial Hall  
Newark, DE 19716

302-831-3351

**From:** Deborah Delaney [<mailto:dadelane@UDel.Edu>]  
**Sent:** Thursday, October 03, 2013 9:14 PM  
**To:** Ernest, John Richard  
**Subject:** Permission to list courses

Dear Dr. Ernest,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked to the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list the following courses for our Group 3 (Communications Focus):

*Group III- Communication Skills Focus*

*9 Credits: Choose at least one of the following*

ENGL 301 Expository Writing 3

ENGL 307 News Writing and Editing 3

ENGL 309 Feature and Magazine Writing 3

ENGL 312 Written Com. In Business 3

ENGL 410 Technical Writing 3

ENGL 413 Topics in Professional Writing 3

UNIV 402 Senior Thesis (Completed) 3

*Choose at least one of the following*

AGRI 212 Oral Com. In Ag & Natural Resources 3

COMM 212 Oral Com. In Business 3  
COMM 350 Public Speaking 3  
LEAD 209 Presentation Strategies 3  
THEA 204 Intro to Voice and Speech 3

Students only have to complete at most two ENGL courses from this focus. Because of the large number of courses offered in this group, I don't expect large requests for any one course. We are a small but enthusiastic major with no more than one or two new majors each year. Are these listings acceptable to your department?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

Hi Dr. Delaney

We would be happy to have that course listed in your Group 4.

best, Kai Draper

On Thu, Oct 3, 2013 at 4:15 PM, Deborah Delaney <[dadelane@udel.edu](mailto:dadelane@udel.edu)> wrote:

Dear Dr. Draper,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked at the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list PHIL 448 in our Group 4 along with 15 other courses. Students only have to complete one course from this group. Because of the large number of courses offered in this group, I don't expect large requests for any one course in this group. Would it be acceptable to your department to list these courses in our Group 4 focus area?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
[302-831-8883](tel:302-831-8883)

Dear Debbie,

Thanks for our interest in our course. You are welcome to list THEA 204.

All the Best,

Sandy

Sanford (Sandy) Robbins  
Producing Artistic Director, Resident Ensemble Players (REP)  
Chairperson, Theatre Department  
413 Academy Street  
Newark, DE 19711  
Office: (302) 831-1895  
[srobbins@art-sci.udel.edu](mailto:srobbins@art-sci.udel.edu)

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**From:** Deborah Delaney [<mailto:dadelane@UDel.Edu>]  
**Sent:** Friday, October 04, 2013 11:59 AM  
**To:** [srobbins@udel.edu](mailto:srobbins@udel.edu)  
**Subject:** Permission to list course

Dear Dr. Robbins

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked to the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list THEA 204 for our Group 3 (Communications Focus). This is just one course option out of 12. Because of the large number of courses offered in this group, I don't expect large requests for any one course. We are a small but enthusiastic major with no more than one or two new majors each year. Are these listings acceptable to your department?

Sincerely,

Debbie

**Deborah A. Delaney Ph.D.**  
Assistant Professor  
University of Delaware  
Entomology and Wildlife Ecology

[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

Deborah,

Your new program name sounds much more descriptive and should be appealing to students. You are welcome to list the geography courses Geog230, Geog235, Geog236, Geog240 and Geog341. However just for your information, Geog230 and Geog240 may not be offered in the next three years due to retirements and unknown expertise of their replacements. You may also want to consider Geog342 Bioclimatology taught by Del Levia. We welcome your students in any of these courses. Tracy

--

Dr. Tracy DeLiberty  
Chair & Associate Professor  
Pearson Hall, Room 216  
Department of Geography  
University of Delaware

[tracyd@udel.edu](mailto:tracyd@udel.edu)  
(302)831-4084  
(302)831-6654 FAX

On 10/3/13 3:20 PM, Deborah Delaney wrote:

Dear Dr. DeLiberty,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked at the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list GEOG 230, GEOG 235, GEOG 236, GEOG 240 and GEOG 341 as course options in our Group 4 along with 11 other courses. Students only have to complete one course from this group. Because of the large number of courses offered in this group, I don't expect large requests for any one course in this group. Would it be acceptable to your department to list these courses in our Group 4 focus area?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
302-831-8883

**From:** Gary Laverty [<mailto:laverty@UDel.Edu>]

**Sent:** Monday, November 18, 2013 4:15 PM

**To:** Delaney, Deborah A

**Subject:** ENWC curriculum

Hi Deborah,

I'm very sorry about the delay with this issue. To be honest, the policy of routing these requests through our undergraduate programs committee is a new one, and, speaking for myself, I'm not really sure what our role is. At any rate, the committee will discuss this and we then need to present our recommendation to the full faculty for a vote. We have a full faculty meeting scheduled for the 25th November, but now it turns out that the Dean will be coming to that meeting, so I'm not too sure if other agenda items will be brought up at all. If we do have a vote, then we would essentially be presenting the will of the faculty to the chair for his consideration and I guess you would have a response from Randy soon after that.

Best regards

Gary Laverty

The Department of Entomology and Wildlife Ecology is proposing a revision to our Entomology major which entails changes in courses as well as a major name. The newly proposed major will be Insect Ecology and Conservation and changes in the course work options reflect a broadening of the skill sets and topics we want to expose our students to. We looked at the Wildlife Conservation major as a template for this revision and restructured the major into five areas: Foundation, Group 1 (Insect Focus), Group 2 (Plant Focus), Group 3 (Communications Focus) and Group 4 (Policy and Culture Focus). We would like to list BISC 495 in our Foundation, and BISC 300, BISC 305, BISC 306, BISC 312 or BISC 321 as options in Group 1 (Insect Focus). There are 10 additional course options in Group 1 (a total of 15) and students are required to complete three courses from this group. We are a small but enthusiastic major with no more than one or two new majors each year. Are these listings acceptable to your department?

Sincerely,

Debbie

Deborah Delaney PhD.  
Department of Entomology & Wildlife Ecology  
252 Townsend Hall  
Newark, DE 19716  
[dadelane@udel.edu](mailto:dadelane@udel.edu)  
[302-831-8883](tel:302-831-8883)