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: _Jacob Bowman_	phone number_ <u>831-4621</u>
Departmei	t: Entomology and Wildlife Ecology	email address jlbowman@udel.edu
Date: _M	arch 1, 2011_	
Action:	revise major (Example: add major/minor/concentration, delete major/minor/concentration, academic unit name change, request	or/minor/concentration, revise for permanent status, policy change, etc.)
Effective		
term	12S	
	12S (use format 04F, 05W)	
Current de	egree BS	
	egree BS (Example: BA, BACH, BACJ, HBA, EDD, 1	MA, MBA, etc.)
Troposed	change leads to the degree of:(Example: BA, I	BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Proposed 1 Revising o	Proposed new name for revised or new major / (if applicable) r Deleting:	minor / concentration / academic unit
•		wa a
Uno	lergraduate major / Concentration:Wild (Example: Applie	ed Music – Instrumental degree BMAS)
Uno	lergraduate minor:(Example: African Studies, Busine	
	(Example: African Studies, Busine	ess Administration, English, Leadership, etc.)
Gra	duate Program Policy statement change:_	
	(Must att	ach your Graduate Program Policy Statement)
Gra	duate Program of Study:	
010	(Example: Animal Science: MS Animal Science	ce: PHD Economics: MA Economics: PHD)
Gra	duate 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")

None of the courses in this revision are new.

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

1. Attain effective skills in oral and written communication, quantitative reasoning, and the use of information technology.

The major has always required 9 credit hours of written and oral communication courses but this revision will require that at least one course be written communication and one be oral communication. This change will ensure that student gain experience in both forms of communication. Additionally, ENWC 416 and ENWC 456 require students to present written and/or oral reports along with ENWC 325 and ENWC 415, which are currently required courses. These four courses also strengthen quantitative reasoning skills and the use of information technology.

- 2. Learn to think critically to solve problems.
 - Problem solving is emphasized in many of the required science courses, especially those with laboratories. We propose adding ENWC 416 and ENWC 456 to further strengthen problem-solving and critical thinking skills.
- 3. Be able to work and learn both independently and collaboratively.

 Both independent and collaborative work is emphasized in many of the required science classes with laboratories. We propose adding ENWC 416 and ENWC 456 to permit more opportunities for students to work independently and collaboratively solving problems.
- 4. Engage questions of ethics and recognize responsibilities to self, community, and society at large.

Environmental issues and conservation of biodiversity are central to wildlife conservation and many of the courses in the major address these issues. The Senior Capstone Experience (ENWC 465) explicitly addresses controversial issues related to wildlife conservation. We propose adding ENWC 413 and ENWC 456, which address questions of ethics and recognizing the responsibilities of self, community, and society at large.

The last 6 goals are supported through college and university requirements as well as electives that expose students to a broad 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")

Center for Energy & Environmental Policy
Department of Animal and Food Sciences
Department of Biological Sciences
Department of Chemistry and Biochemistry
Department of Food and Resource Economics
Department of Geography
Department of Plant and Soil Sciences
School of Public Policy and Administration

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

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

We propose this revision to increase the exposure of our students to wildlife conservation related topics. We propose moving ENWC406 (Insect Identification - Taxonomy) and ANSC300 (Animal and Plant Genetics) from "Major Requirements" to Group I and replace them with ENWC416 (Wildlife Habitat Management) and ENWC456 (Conservation Biology). ENWC 416 and 456 will provide our students with a stronger foundation in wildlife conservation. We propose adding PLSC201 as an option for the botany requirement so that either PLSC101 (Botany I) or PLSC201 (Botany II) would satisfy the requirement. The change will give the students greater flexibility in achieving their botany requirement. We propose replacing the 3 credit hours of any ENWC course with ENWC 413 (Wildlife Policy and Administration). This course is currently part of Group III but requiring it will ensure that all of our students will have a stronger foundation in policy and administration as it directly relates to wildlife conservation. We propose changing the general chemistry requirement from CHEM101/102 or CHEM103/104 to permit only CHEM103/104. Chemistry 101/102 is being phased out and does not prepare the student for advanced chemistry courses as well as CHEM 103/104. We propose revising Group I by reducing it to 6 credit hours, adding 15 courses to the list of courses, and deleting 3 courses. The reduction in credit hours will allow students greater flexibility to double major or minor in other topics. Reduction in the credits hours will not adversely affect students since we have strengthened the required major courses. We propose deleting 3 courses and adding 15 courses to ensure diversity in the focus areas of terrestrial animals and courses related to their biology. We propose adding one oral communication course to expand the offerings in Group II. We also propose requiring at least one oral and one written communication course to ensure that student gain experience in both forms of communication. We propose adding 5 courses to Group III to expand the offerings in this group. Because we are proposing that ENWC 413, currently part of Group III, be a required course, we propose reducing Group III to 3 credits hours.

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: WILDLIFE 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

FREC 135 (or equivalent) Intro to Data Analysis 3

MATH 115, MATH 221, or MATH 241 3-4

BISC 207/BISC 208 Introductory Biology I and II 8

BISC 302 General Ecology 3

CHEM 103/CHEM 104 General Chemistry 8

ENWC 165 New Student Seminar 1

ENWC 201 Wildlife Conservation and Ecology 3

ENWC 205 Elements of Entomology 3

ENWC 325 Wildlife Management 3

ENWC 413 Wildlife Policy and Administration 3

ENWC 416 Wildlife Habitat Management 3

ENWC 456 Conservation Biology 3

ENWC 415 Wildlife Research Techniques 3

ENWC 418 Ornithology 3

ENWC 425 Mammalogy 3

ENWC 465 Senior Capstone Experience 1

ECON 151 Introduction to Microeconomics: Prices and Markets 3

FREC 150 Economics of Agriculture and Natural Resources 3 FREC 408 Research Methods I 3 STAT 200 Basic Statistical Practice 3 PLSC 101 Botany I 4 PLSC 201 Botany II 4 PLSC 204 Introduction to Soil Science 3 PLSC 212 Woody Landscape Plants 4 PLSC 214 Indigenous Woody Plants of Eastern United States 2 PLSC 404 Plant Taxonomy 3 GROUP I: 6 credits from the following 27 ANFS 140 Functional Anatomy of Domestic Animals **ANFS 251 Animal Nutrition** ANFS 300 Principles of Animal and Plant Genetics ANFS 310 Animal and Plant Genetics Laboratory ANFS 332 Introduction to Animal Diseases BISC 300 Introduction to Microbiology BISC 305 Cell Physiology BISC 306 General Physiology **BISC 312 Field Ecology** BISC 442 Vertebrate Morphology BISC 480 Vertebrate Natural History **BISC 495 Evolution** ENWC 214 Apiology and Apiculture **ENWC 215 Entomology Laboratory** ENWC 224 Apiology and Apiculture Laboratory ENWC 314 Comparative Terrestrial and Marine Ecology ENWC 405 Insect Structure and Function ENWC 406 Insect Identification – Taxonomy ENWC 408 Insect Field Taxonomy ENWC 410 Medical, Veterinary, and Forensic Entomology ENWC 411 Insect Pest Management ENWC 419 Biological Control ENWC 424 Herpetology **ENWC 435 Population Ecology** ENWC 444 Conservation of Tropical Biodiversity ENWC 452 Conservation of African Wildlife ENWC 620 Behavioral Ecology GROUP II: 9 credits from the following 11 At least one of the following: AGRI 212 Oral Communication in Agriculture and Natural Resources COMM 212 Oral Communication in Business COMM 350 Public Speaking LEAD 209 Presentation Strategies THEA 204 Introduction to Voice and Speech At least one of the following: **ENGL 301 Expository Writing** ENGL 307 News Writing and Editing ENGL 309 Feature and Magazine Writing ENGL 312 Written Communications in Business **ENGL 410 Technical Writing** UNIV 402 Senior Thesis (requires completed thesis)

ENEP 410 Political Economy of Environment

ENEP 426 Climate Change: Science, Policies & Political Economy

ENWC 450 Debates in Conservation Biology

ENWC 453 Community-based Conservation

FREC 100 Sustainable Development

FREC 406 Agricultural and Natural Resource Policy

FREC 444 Economics of Environmental Management

FREC 450 Topics in Environmental Law

GEOG235 Conservation of Natural Resources

GEOG 236 Conservation: Global Issues

PHIL 448 Environmental Ethics

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

ROUTING AND AUTHORIZATION:	(Please do not remove supporting documentation.)
Department Chairperson	
Dean of College	
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
RegistrarProgram	CodeDate
Vice Provost for Academic Affairs & International Program	nsDate
Provost	Date
Board of Trustee Notification	Date

Revised 02/09/2009 /khs

Current Program

Proposed Changes to the Program

DEGREE: BACHELOR OF SCIENCE MAJOR: WILDLIFE 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

FREC 135 (or equivalent) Intro to Data Analysis 3 MATH 115, MATH 221, or MATH 241 3-4 BISC 207/BISC 208 Introductory Biology I and II 8

BISC 302 General Ecology 3

CHEM 101/CHEM 102 General Chemistry

or

CHEM 103/CHEM 104 General Chemistry 8

ENWC 165 New Student Seminar 1

ENWC 201 Wildlife Conservation and Ecology 3

ENWC 205 Elements of Entomology 3

ENWC 300 Principles of Animal and Plant Genetics 3

or

BISC 403 Genetics and Evolutionary Biology 3

ENWC 325 Wildlife Management 3

ENWC 406 Insect Identification--Taxonomy 3 ENWC 415 Wildlife Research Techniques 3

ENWC 418 Ornithology 3 ENWC 425 Mammalogy 3

ENWC 465 Senior Capstone Experience 1

ENWC credit (may include UNIV 400 or any ENWC

course 200-level

or above (except X66 and x68) 3

ECON 151 Introduction to Microeconomics: Prices and

Markets 3

or

FREC 150 Economics of Agriculture and Natural

Resources 3

FREC 408 Research Methods I 3

or

STAT 200 Basic Statistical Practice 3

PLSC 101 Botany I 4

PLSC 204 Introduction to Soil Science 3

PLSC 212 Woody Landscape Plants 4

or

PLSC 214 Indigenous Woody Plants of Eastern United

States 2

or

PLSC 404 Plant Taxonomy 3

GROUP I: 10 credits from the following 10

ANSC 140 Functional Anatomy of Domestic Animals

BISC 300 Introduction to Microbiology

BISC 305 Cell Physiology

BISC 306 General Physiology

BISC 442 Vertebrate Morphology

BISC 480 Vertebrate Natural History

BISC 495 Evolution

BISC 637 Population Ecology

ENWC 310 Animal and Plant Genetics Laboratory

ENWC 408 Insect Field Taxonomy

ENWC 424 Herpetology

ENWC 444 Conservation of Tropical Biodiversity

ENWC 452 Conservation of African Wildlife

MAST 627 Marine Biology MAST 629 Ichthyology CHEM 103/104

CHEM 101/102 no longer permitted

ENWC 456 Conservation Biology 3

ENWC 300 (now ANFS300) and BISC403 moved to

Group I

ENWC 416 Wildlife Habitat Management 3

ENWC 406 moved to Group I

ENWC 413 Wildlife Policy and Administration 3

PLSC 101 Botany I or PLSC 201 Botany II

Group I: 6 credits from the following 27

Delete BISC 637

Delete MAST 627 Delete MAST 629 GROUP II: 9 credits from the following 9

AGRI 212 Oral Communication in Agriculture and Natural Resources

COMM 212 Oral Communication in Business

COMM 350 Public Speaking

ENGL 301 Expository Writing

ENGL 307 News Writing and Editing

ENGL 309 Feature and Magazine Writing

ENGL 312 Written Communications in Business

ENGL 410 Technical Writing

THEA 204 Introduction to Voice and Speech

UNIV 402 Senior Thesis (requires completed thesis)

GROUP III: 6 credits from the following 6

ENWC 413 Wildlife Policy and Administration

ENWC 450 Debates in Conservation Biology

ENWC 453 Community-based Conservation

FREC 444 Economics of Environmental Management

FREC 450 Topics in Environmental Law

GEOG 236 Conservation: Global Issues

PHIL 448 Environmental Ethics

POSC 350 Politics and the Environment

Add ANFS 251 Animal Nutrition

Add ANFS 300 Principles of Animal and Plant Genetics

Add ANFS 332 Introduction to Animal Diseases 3

Add BISC 312 Field Ecology 3

Add ENWC 214 Apiology and Apiculture 2

Add ENWC 215 Entomology Laboratory 1

Add ENWC 224 Apiology and Apiculture Laboratory 1 Add ENWC 314 Comparative Terrestrial and Marine

Ecology 3

Add ENWC 405 Insect Structure and Function 3

Add ENWC 406 Insect Identification – Taxonomy 3

Add ENWC 410 Medical, Veterinary, and Forensic

Entomology 3

Add ENWC 411 Insect Pest Management 3

Add ENWC 419 Biological Control 3

Add ENWC 620 Behavioral Ecology 3

Add ENWC 435 Population Ecology 3

GROUP II: 9 credits from the following 11

At least one of the following:

AGRI 212 Oral Communication in Agriculture and Natural

Resources 3

COMM 212 Oral Communication in Business 3

COMM 350 Public Speaking

Add LEAD 209 Presentation Strategies 3

THEA 204 Introduction to Voice and Speech 3

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 Communications in Business 3

ENGL 410 Technical Writing 3

UNIV 402 Senior Thesis (requires completed thesis) 3

GROUP III: 3 credits from the following 12

Delete ENWC 413 from group and becomes it a required course

Add ENEP 410 Political Economy of Environment 3 Add ENEP 426 Climate Change: Science, Policies &

Political Economy

Add FREC 100 Sustainable Development

Add FREC 406 Agricultural and Natural Resource Policy 3

Add GEOG235 Conservation of Natural Resources 3

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

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From: John Michael Byrne <jbbyrne@UDel.Edu>
Sent: Wednesday, September 14, 2011 11:15 AM
     Jacob L. Bowman
Subject: Re: Permission to list courses
No problem, Jake. Regards, John
______
                       Phone: (302) 831-8405
John Byrne, Director and
Distinguished Professor of
  Energy and Climate Policy FAX: (302) 831-3098
Center for Energy &
  Environmental Policy
                                       jbbyrne@udel.edu
                              E-mail:
University of Delaware
                         Website: http://ceep.udel.edu
Newark, DE 19716-7301 USA Bio:
http://ceep.udel.edu/Bios/Byrne.pdf
______
On Wed, 14 Sep 2011, Jacob L. Bowman wrote:
> Dr. Byrne,
> The Department of Entomology and Wildlife Ecology is proposing a
> revision to our Wildlife Conservation major. Part of this revision is
> updating several of the groups required by the major. We would like
> to list ENEP 410 and 426 as part of our Group III along with 11 other
> courses. Students only have to complete one course from this group.
> Because of the number of courses offered in this group, I don't expect
> large requests for any one course in this group. Is this listing
> acceptable to your department?
> Sincerely,
> Jake
> Jacob L. Bowman, Ph.D.
> Associate Professor Wildlife Ecology
> 245 Townsend Hall
> Department of Entomology and Wildlife Ecology University of Delaware
> Newark, DE 19716-2160
> Office: (302) 831-4621
> Fax: (302) 831-8889
> Email: jlbowman@udel.edu<mailto:jlbowman@udel.edu>
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From: Kniel, Kali

Sent: Wednesday, September 21, 2011 9:14 AM

To: Jacob L. Bowman; Gelb, Jack
Subject: RE: Permission to list courses

Hi Jake,

This is fine with ANFS.

An issue was raised that ANFS students have difficulties getting the Wildlife minor. Could we talk about how to make that easier for them. (So this is not really a bargain, but can we talk about this issue sometime this semester.)

Thanks, Kali

From: Jacob L. Bowman

Sent: Wednesday, September 21, 2011 8:38 AM

To: Gelb, Jack Cc: Kniel, Kali

Subject: RE: Permission to list courses

Jack and Kali,

I was wondering if you had a chance to consider my request for listing courses? Let me know if you have any questions. I'm happy to meet to discuss these courses with one or both or you.

Take care,

Jake

From: Gelb, Jack

Sent: Tuesday, September 13, 2011 8:47 AM

To: Jacob L. Bowman

Cc: Kniel, Kali

Subject: RE: Permission to list courses

Hi Jake,

Thank you for your e-mail.

I will ask Kali, who chairs our anfs courses and curriculum committee, to respond.

Jack

From: Jacob L. Bowman

Sent: Monday, September 12, 2011 8:18 PM

To: Gelb, Jack

Subject: Permission to list courses

Jack,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Wildlife Conservation major. Part of this revision is updating several of the groups required by the major. We would like to list ANFS 251, ANFS 300, and ANFS 332 as part of our Group I along with 24 other courses. ANFS 300 is currently a required courses so the requests for this course will decrease. We have several students double majoring in Animal Science so permitting ANFS 251 and ANFS 332 would allow them to double count required courses. Because of the large number of courses in Group I, I expect the pressure on any one course to be very low. Is this listing acceptable to your department?

Sincerely,

Jake

Jacob L. Bowman, Ph.D.
Associate Professor Wildlife Ecology
245 Townsend Hall
Department of Entomology and Wildlife Ecology
University of Delaware
Newark, DE 19716-2160

Office: (302) 831-4621 Fax: (302) 831-8889

Email: <u>ilbowman@udel.edu</u>

From: David C. Usher <dusher@UDel.Edu>
Sent: Sunday, September 18, 2011 8:39 PM
To: Jacob L. Bowman; 'Randall Duncan'

Cc: 'David W. Smith'

Subject: RE: Permission to list a course

Jake,

We have no complaint as long as it is only one student. This is a heavily subscribed course and we can reserve one spot but only in the fall. In addition you must email Dave Smith before spring registration to let him know who the student is.

--Dave

From: Jacob L. Bowman [mailto:jlbowman@UDel.Edu]

Sent: Tuesday, September 13, 2011 7:57 AM

To: Randall Duncan Cc: 'David C. Usher'

Subject: RE: Permission to list a course

Randy,

Thank you for your consideration. If either Dave or you have any questions, just let me know.

Take care,

Jake

From: Randall Duncan [mailto:rlduncan@UDel.Edu]

Sent: Tuesday, September 13, 2011 7:46 AM

To: Jacob L. Bowman **Cc:** 'David C. Usher'

Subject: RE: Permission to list a course

Hi Jake,

I'm passing this on to my Associate Chair, David Usher. We'll go over the request and get back to you by tomorrow.

Randy

Randall L. Duncan, Ph.D.
Professor and Chairman
Department of Biological Sciences
University of Delaware
Newark, DE 19716
(Tel) 302.831.4296
(Fax) 302.831.1033

"After a certain high level of technical skill is achieved, science and art tend to coalesce in aesthetics, plasticity, and form. The greatest scientists are always artists as well."

Albert Einstein

From: Jacob L. Bowman [mailto:jlbowman@UDel.Edu]

Sent: Monday, September 12, 2011 7:48 PM

To: rlduncan@udel.edu

Subject: Permission to list a course

Dr. Duncan,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Wildlife Conservation major. Part of this revision is updating several of the groups required by the major. We would like to list BISC 312 as part of our Group I along with 26 other courses. Because of the number of courses in this group, I suspect that fewer than one student per year will request the course. Is this listing acceptable to your department?

Sincerely,

Jake

Jacob L. Bowman, Ph.D.
Associate Professor Wildlife Ecology
245 Townsend Hall
Department of Entomology and Wildlife Ecology
University of Delaware

Newark, DE 19716-2160 Office: (302) 831-4621 Fax: (302) 831-8889

From: Klaus Theopold <theopold@UDel.Edu>
Sent: Tuesday, September 13, 2011 10:22 AM

To: Jacob L. Bowman
Cc: John L. Burmeister

Subject: Re: Permission to list courses

Jake,

Congratulations on lifting the bar a bit. I agree with you and your colleagues that CHEM 103/104 will be better preparation for your majors if they aspire to an understanding of chemistry and related sciences.

Regarding the practical consequences of your decision, I should say that we have recently experienced saturation in CHEM 103, which is capped at a capacity of 1200 students during the fall semester, due to available laboratory space. If your students have already been taking this sequence, then the change should not create additional problems. However, in the spirit of full disclosure I wanted you to be aware that under the current enrollment scenarios immediate access to CHEM 103 may not always be guaranteed. All the same, we teach the class fall, winter, spring and summer, so with some flexibility your majors should be able to fulfill this requirement.

Regards, Klaus

Klaus H. Theopold, Professor and Chair Department of Chemistry and Biochemistry

On Sep 12, 2011, at 7:54 PM, Jacob L. Bowman wrote:

Dr. Theopold,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Wildlife Conservation major. Part of this revision is updating courses. Our current curriculum permits either CHEM101/102 or CHEM 103/104. We would like to change this requirement to only CHEM 103/104. We think this requirement would better prepare our students for BISC 207/208 and allow those interested in chemistry to be better prepared for more advanced chemistry courses. The last few years we have attempted to place students in CHEM103/104 so I don't expect any additional pressure on CHEM 103/104. Is this listing acceptable to your department?

Sincerely,

Jake

Jacob L. Bowman, Ph.D.
Associate Professor Wildlife Ecology
245 Townsend Hall
Department of Entomology and Wildlife Ecology
University of Delaware

Newark, DE 19716-2160 Office: (302) 831-4621 Fax: (302) 831-8889

From: Titus Awokuse

Sent: Tuesday, September 13, 2011 5:00 PM

To: Jacob L. Bowman

Subject: Re: Permission to list courses

Jake,

It's ok to list FREC 100 and 406 as part of the Group III requirement in your major. In FREC, we are happy to continue to partner with your growing program in Wildlife Conservation.

Regards,

TOA

Titus O. Awokuse Professor and Chair Dept. of Food & Resource Economics University of Delaware Newark, DE 19716 Phone: 302-831-1323

Date: Mon, 12 Sep 2011 19:58:48 -0400 **To:** Titus Awokuse < <u>kuse@udel.edu</u>> **Subject:** Permission to list courses

From: "Jacob L. Bowman" < jlbowman@udel.edu>

Titus,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Wildlife Conservation major. Part of this revision is updating several of the groups required by the major. We would like to list FREC 100 and FREC 406 part of our Group III along with 11 other courses. Students only have to complete one course from this group. Most of our student have been taking FREC100 the last few years so I don't expect additional pressure on these courses. Is this listing acceptable to your department?

Sincere	

Jake

Jacob L. Bowman, Ph.D.
Associate Professor Wildlife Ecology
245 Townsend Hall
Department of Entomology and Wildlife Ecology
University of Delaware

Newark, DE 19716-2160 Office: (302) 831-4621 Fax: (302) 831-8889

From: Sent: To: Subject:	Tracy Deliberty <tracyd@udel.edu> Wednesday, September 21, 2011 8:59 AM Jacob L. Bowman Re: Permission to list course</tracyd@udel.edu>
Jacob,	
	deography. We will offer Geog235 once a year at a minimum, if not each of if you require additional info. Tracy DeLiberty
On Mon, Sep 12, 2011 a	at 8:03 PM, Jacob L. Bowman < <u>jlbowman@udel.edu</u> > wrote:
Dr. DeLiberty,	
Conservation major. Pa major. We would like to courses. Students only l	omology and Wildlife Ecology is proposing a revision to our Wildlife art of this revision is updating several of the groups required by the o list GEOG 235 as part of our Group III along with 11 other have to complete one course from this group, so I don't expect much Is this listing acceptable to your department?
Sincerely,	
Jake	
Jacob L. Bowman, Ph.D).
Associate Professor Wil	dlife Ecology
245 Townsend Hall	
Department of Entomole	ogy and Wildlife Ecology
University of Delaware	

From:

Newark, DE 19716-2160

Office: (302) 831-4621

Fax: (302) 831-8889

Email: <u>ilbowman@udel.edu</u>

From: Blake Meyers <meyers@dbi.udel.edu>
Sent: Monday, September 12, 2011 8:30 PM

To: Jacob L. Bowman

Cc: Dave Frey

Subject: Re: Permission to list a course

Jake,

This sounds fine to me - while the content is a bit different, I don't see why PLSC201 shouldn't also suffice.

best wishes, Blake

From: "Jacob L. Bowman" < jlbowman@udel.edu>

To: MEYERS@DBI.UDEL.EDU
Cc: "Dave Frey" < dfrey@udel.edu>

Sent: Monday, September 12, 2011 8:11:50 PM

Subject: Permission to list a course

Blake,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Wildlife Conservation major. Part of this revision is updating courses. Our current curriculum permits PLSC 101 for our botany requirement. We would like to change this requirement to PLSC 101 or PLSC 201. We think this change would allow our student greater flexibility in fulfilling their botany requirement. I have discussed this change with Dave Frey so I copied him in case he has anything to add. Is this listing acceptable to your department?

Sincerely,

Jake

Jacob L. Bowman, Ph.D.
Associate Professor Wildlife Ecology
245 Townsend Hall
Department of Entomology and Wildlife Ecology
University of Delaware

Newark, DE 19716-2160 Office: (302) 831-4621 Fax: (302) 831-8889

From: Aristigueta, Maria P. <Aristigueta@oet.udel.edu>

Sent: Tuesday, September 13, 2011 3:10 PM

To: Jacob L. Bowman

Subject: RE: Permission to list courses

Jake, no problem with the LEAD course. However, ENEP is not in the School, they are in the College of Engineering. Please contact John Byrne for the ENDP courses.

Best wishes, Maria

Maria P. Aristigueta Professor and Director School of Public Policy and Administration University of Delaware (302) 831-4570

http://www.udel.edu/suapp/

http://www.ipa.udel.edu/directory/homepages/aristigueta.html

From: Audrey Helfman [mailto:ahelfman@udel.edu]
Sent: Tuesday, September 13, 2011 10:42 AM

To: Aristigueta, Maria P.

Subject: Re: Permission to list courses

Hi Maria,

Yes, Wildlife Conservation majors can have access to LEAD 209.

Audrey

On Sep 13, 2011, at 8:55 AM, Aristigueta, Maria P. wrote:

Are you ok with this?

From: Jacob L. Bowman [mailto:jlbowman@UDel.Edu]

Sent: Monday, September 12, 2011 8:30 PM

To: Aristigueta, Maria P.

Subject: Permission to list courses

Dr. Aristigueta,

The Department of Entomology and Wildlife Ecology is proposing a revision to our Wildlife Conservation major. Part of this revision is updating several of the groups required by the major. We would like to list LEAD 209 as part of our Group II along with 11 other courses. Student have to complete 3 courses from this group and we have been allowing LEAD 209 as a substitute for several year. I anticipate less than 5

requests per year. We would also like to list ENEP 410 and 426 as part of our Group III along with 11 other courses. Students only have to complete one course from this group. Because of the number of courses offered in this group, I don't expect large requests for any one course in this group. Is this listing acceptable to your department?

Sincerely,

Jake

Jacob L. Bowman, Ph.D.
Associate Professor Wildlife Ecology
245 Townsend Hall
Department of Entomology and Wildlife Ecology
University of Delaware

Newark, DE 19716-2160 Office: (302) 831-4621 Fax: (302) 831-8889

Email: <u>ilbowman@udel.edu</u>