

## Cover Sheet: Request 13045

### Add Approved Courses and Electives to meet requirements for the Biology major

#### Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Teresa Mutahi tmutahi@ufl.edu
Created	9/13/2018 10:58:25 AM
Updated	10/8/2018 9:38:20 AM
Description of request	<p>Approve the addition of listed approved additional life science (ALS) electives and BSC3096 (Human Physiology) as a third alternative to meet the physiology requirements. The addition of the following courses was approved by the Biology Major Executive Committee (BMEC).</p> <ol style="list-style-type: none"> <li>1. ALS3153, Agricultural Ecology, approved as an ALS elective for the BIO-BA UFO track.</li> <li>2. SWS 4223, Environmental Biogeochemistry, as an ALS elective for the BIO-BA UFO and BIO-BA residential tracks on April 17, 2018. Please note: for BIO-PRO and BL Y-PRO tracks, this course was approved as an ALS elective on April 18, 2014.</li> <li>3. BMS4136C, Human Histology, approved as an ALS elective for the BIO-BA residential track</li> <li>4. BSC3096, Human Physiology, as a third alternative course for the BIO-PRO and BLY-PRO Physiology requirement.</li> <li>5. ENY 2890, Scientific Engagement, as ALS elective for BIO-PRO and BLY-PRO tracks on February 1, 2017. Please note: for BIO-BA Residential, this course was approved as an ALS elective on May 24, 2013.</li> <li>6. APK2100C, Applied Human Anatomy with Lab, as an ALS elective for the BIO-BA residential and UFO tracks.</li> <li>7. ANT3514C, Introduction to Biological Anthropology, as an ALS for the BIO-BA residential and UFO tracks.</li> <li>8. PCB4553, Population Genetics, was approved as an ALS elective for BIO-PRO and BLY-PRO tracks.</li> </ol>

#### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS - Biology 011690003	Marta Wayne		9/13/2018
CALS CLAS BMEC Electives MOU.pdf MOU for BMEC Approved Courses (Signed).pdf ALSadditions.doc					9/13/2018 9/13/2018 9/13/2018
College	Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane		9/21/2018
Approved courses CALS support letter Joel Brendemuhl.doc					9/14/2018
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Angela Lindner		9/27/2018
No document changes					
University Curriculum Committee	Commented	PV - University Curriculum Committee (UCC)	Lee Morrison	Added to October agenda.	10/1/2018
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			10/1/2018
No document changes					
Office of the Registrar					

Step	Status	Group	User	Comment	Updated
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

# Major|Modify\_Curriculum for request 13045

## Info

**Request:** Add Approved Courses and Electives to meet requirements for the Biology major  
**Description of request:** Approve the addition of listed approved additional life science (ALS) electives and BSC3096 (Human Physiology) as a third alternative to meet the physiology requirements. The addition of the following courses was approved by the Biology Major Executive Committee (BMEC).

1. ALS3153, Agricultural Ecology, approved as an ALS elective for the BIO-BA UFO track.
2. SWS 4223, Environmental Biogeochemistry, as an ALS elective for the BIO-BA UFO and BIO-BA residential tracks on April 17, 2018. Please note: for BIO-PRO and BL Y-PRO tracks, this course was approved as an ALS elective on April 18, 2014.
3. BMS4136C, Human Histology, approved as an ALS elective for the BIO-BA residential track
4. BSC3096, Human Physiology, as a third alternative course for the BIO-PRO and BLY-PRO Physiology requirement.
5. ENY 2890, Scientific Engagement, as ALS elective for BIO-PRO and BLY-PRO tracks on February 1, 2017. Please note: for BIO-BA Residential, this course was approved as an ALS elective on May 24, 2013.
6. APK2100C, Applied Human Anatomy with Lab, as an ALS elective for the BIO-BA residential and UFO tracks.
7. ANT3514C, Introduction to Biological Anthropology, as an ALS for the BIO-BA residential and UFO tracks.
8. PCB4553, Population Genetics, was approved as an ALS elective for BIO-PRO and BLY-PRO tracks.

**Submitter:** Teresa Mutahi tmutahi@ufl.edu

**Created:** 9/13/2018 9:42:43 AM

**Form version:** 1

## Responses

### Major Name

*Enter the name of the major. Example: "Mathematical Modeling"*

Response:  
Biology Major

### Major Code

*Enter the two-letter or three-letter major code.*

Response:  
BIO

### Degree Program Name

*Enter the name of the degree program in which the major is offered.*

Response:  
Biology Major

### Undergraduate Innovation Academy Program

*Is this an undergraduate program in the Innovation Academy?*

Response:

Yes

**Effective Term**

*Enter the term (semester and year) that the curriculum change would be effective.*

Response:  
Earliest Available

**Effective Year**

Response:  
Earliest Available

**Current Curriculum for Major**

Response:  
Current curriculum and list of approved courses exists here  
([https://catalog.ufl.edu/UGRD/courses/biological\\_sciences/](https://catalog.ufl.edu/UGRD/courses/biological_sciences/))

**Proposed Curriculum Changes**

*Describe the proposed changes to the curriculum. If the change is to offer the program through UF Online, please explain and attach a letter of support from the Director of UF Online.*

Response:  
The biology major executive committee (BMEC) has approved new courses to fulfill requirements for the major. The Memo with approved additional life science (ALS) electives and BSC 3096 (Human Physiology) to meet the physiology requirements for the BIO-PRO and BLY-PRO tracks is attached.

**Pedagogical Rationale/Justification**

*Describe the rationale for the proposed changes to the curriculum.*

Response:  
Biology major program has a list of approved electives and courses needed to meet graduation requirements. The Biology Major Executive Committee (BMEC) reviews and approves electives as new courses are added or when old courses are no longer being offered.

**Impact on Enrollment, Retention, Graduation**

*Describe any potential impact of the curriculum changes on students who are currently in the major.*

Response:  
None

**Assessment Data Review**

*Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.*

Response:

The Biology Major Executive Committee (BMEC) continuously reviews the curriculum and courses and voted that they be added as approved courses/electives. Students can take these courses to meet their graduation requirements.

**Academic Learning Compact and Academic Assessment Plan**

*Describe the modifications to the Academic Learning Compact (for undergraduate programs) and Academic Assessment Plan that result from the proposed change.*

Response:

BSC3096, Human Physiology added as a third alternative course to meet the physiology requirements for the BIO-PRO and BLY-PRO tracks. Reinforces SLO 1, SLO 2 and SLO 4 on the curriculum map.



College of Liberal Arts and Sciences  
Academic Advising Center

100 Fletcher Drive  
PO Box 112015  
Gainesville, FL 32611-2015  
352-395-1521  
352-392-2905 Fax

September 12, 2018

Dr. Teresa Mutahi, Assistant Director,  
Biology Major  
University of Florida

Dear Dr. Mutahi,

I have reviewed the proposed new ALS elective courses approved by the Biology Major Executive Committee, per your memorandum of September 12. These have the approval of the College of Liberal Arts and Sciences.

Please let me know if you need anything else.

Sincerely,

A handwritten signature in black ink, appearing to read 'Joseph F. Spillane', with a horizontal line extending to the right.

Joseph F. Spillane  
Associate Dean, College of Liberal Arts and Sciences



UF/IFAS  
College of Agricultural and Life Sciences  
Office of the Dean

2020 McCarty Hall D  
PO Box 110270  
Gainesville, FL 32611-0270  
352-392-1963  
352-392-8988 Fax

September 14, 2018

Dr. Teresa Mutahi, Assistant Director,  
Biology Major  
University of Florida

Dear Dr. Mutahi,

I have reviewed the proposed new ALS elective courses approved by the Biology Major Executive Committee, per your memorandum of September 12. These have the approval of the College of Agricultural and Life Sciences.

Please let me know if you need anything else.

Sincerely,

A handwritten signature in black ink, appearing to read 'J.H. Brendemuhl', written in a cursive style.

Joel H. Brendemuhl, PhD  
Associate Dean  
College of Agricultural and Life Sciences

## Bachelor of Arts Biology Approved Electives List

See course descriptions for prerequisites and requirements

Course List		
Code	Title	Credits
<a href="#">AGR 4320</a>	Plant Breeding	3
<a href="#">ALS 4161</a>	Exotic Species and Biosecurity Issues	3
<a href="#">ALS 4162</a>	Consequences of Biological Invasions	3
<a href="#">ALS 4163</a>	Challenges in Plant Resource Protection	3
<a href="#">ANS 3006</a> & <a href="#">3006L</a>	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
<a href="#">ANS 3319C</a>	Reproductive Physiology and Endocrinology in Domestic Animals	4
<a href="#">ANS 3440</a>	Principles of Animal Nutrition	4
<a href="#">ANT 3514C</a>	Introduction to Biological Anthropology	4
<a href="#">ANT 4531</a>	Molecular Genetics of Disease	3
<a href="#">ANT 4552</a>	Primate Behavior	3
<a href="#">ANT 4554C</a>	Primate Evolution	3
<a href="#">ANT 4586</a>	Human Evolution	3
<a href="#">APK 2100C</a>	Applied Human Anatomy with Laboratory	4
<a href="#">BCH 4024</a>	Introduction to Biochemistry and Molecular Biology	4
<a href="#">BMS 4136C</a>	Human Histology	4
<a href="#">BOT 2710C</a>	Practical Plant Taxonomy	3
<a href="#">BOT 2800C</a>	Plants in Human Affairs	3
<a href="#">BOT 3151C</a>	Local Flora of North Florida	3
<a href="#">BOT 3503</a> & <a href="#">3503L</a>	Physiology and Molecular Biology of Plants and Physiology and Molecular Biology of Plants Laboratory	5
<a href="#">BOT 4621</a>	Plant Geography	2
<a href="#">BOT 4935</a>	Special Topics	1-4
<a href="#">BSC 1920</a>	First Year Introduction: Biology at UF	1
<a href="#">BSC 2862</a>	Global Change Ecology and Sustainability	3
<a href="#">BSC 3402</a>	Theory and Practice in the Biological Sciences	2
<a href="#">BSC 3422C</a>	Principles of the Biotechnology Industry	2
<a href="#">BSC 3911</a>	Entering Research in Biology	1
<a href="#">BSC 4821C</a>	Evolutionary Biogeography	3
<a href="#">BSC 4910</a>	Individual Mentored Research in Biology	0-3
<a href="#">BSC 4912</a>	Advanced Mentored Research in Biology	0-4
<a href="#">ENY 2890</a>	Using Insect Research to Understand the Nature of Scientific Engagement	3



Course List

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<a href="#"><u>ENY 3005</u></a> & <a href="#"><u>3005L</u></a>	Principles of Entomology and Principles of Entomology Laboratory	3
<a href="#"><u>ENY 3007C</u></a>	Life Science	3
<a href="#"><u>ENY 3163</u></a>	Invertebrate Field Biology	3
<a href="#"><u>ENY 3563</u></a>	Introduction to Tropical Entomology	3
<a href="#"><u>ENY 3564L</u></a>	Tropical Entomology Field Laboratory	2
<a href="#"><u>ENY 4161</u></a>	Insect Classification	3
<a href="#"><u>ENY 4210</u></a>	Insects and Wildlife	3
<a href="#"><u>ENY 4453</u></a>	Behavioral Ecology and Systematics	3
<a href="#"><u>ENY 4455C</u></a>	Social Insects	3
<a href="#"><u>ENY 4660</u></a> & <a href="#"><u>4660L</u></a>	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory	3
<a href="#"><u>FAS 4202C</u></a>	Biology of Fishes	4
<a href="#"><u>FAS 4305C</u></a>	Introduction to Fishery Science	3
<a href="#"><u>FOR 3342C</u></a>	Tree Biology	3
<a href="#"><u>GLY 3603C</u></a>	Paleontology	4
<a href="#"><u>HOS 3305</u></a>	Introduction to Plant Molecular Biology	3
<a href="#"><u>HOS 4304</u></a>	Horticultural Physiology	3
<a href="#"><u>HOS 4313C</u></a>	Laboratory Methods in Plant Molecular Biology	2
<a href="#"><u>HUN 4221</u></a>	Nutrition and Metabolism	3
<a href="#"><u>HUN 4445</u></a>	Nutrition and Disease: Part 1	2
<a href="#"><u>HUN 4446</u></a>	Nutrition and Disease: Part 2	3
<a href="#"><u>MCB 4203</u></a>	Bacterial Pathogens	3
<a href="#"><u>MCB 4304</u></a>	Genetics of Microorganisms	3
<a href="#"><u>MCB 4320C</u></a>	The Microbiome	3
<a href="#"><u>MCB 4403</u></a>	Prokaryotic Cell Structure and Function	3
<a href="#"><u>MCB 4503</u></a>	General Virology	3
<a href="#"><u>NEM 3002</u></a>	Principles of Nematology	3
<a href="#"><u>PCB 3023</u></a>	Essential Cell Biology	3
<a href="#"><u>PCB 3134</u></a>	Eukaryotic Cell Structure and Function	3
<a href="#"><u>PCB 3601C</u></a>	Plant Ecology	3
<a href="#"><u>PCB 4043C</u></a>	General Ecology	4
<a href="#"><u>PCB 4085</u></a>	Genetical Ethics	1
<a href="#"><u>PCB 4233</u></a>	Immunology	3
<a href="#"><u>PCB 4522</u></a>	Molecular Genetics	3
<a href="#"><u>PCB 4553</u></a>	Population Genetics	4

Course List

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<a href="#">PCB 4674</a>	Evolution	4
<a href="#">PLP 3002C</a>	Fundamentals of Plant Pathology	4
<a href="#">PLS 3004C</a>	Principles of Plant Science	3
<a href="#">PLS 3223</a> & <a href="#">3223L</a>	Plant Propagation and Plant Propagation Laboratory	3
<a href="#">PSB 3002</a>	Physiological Psychology	3
<a href="#">PSB 3340</a>	Behavioral Neuroscience	3
<a href="#">PSB 4434</a>	Neurochemistry, Pharmacology and Behavior	3
<a href="#">PSB 4504</a>	Developmental Psychobiology	3
<a href="#">PSB 4654</a>	Chemical Senses and Behavior	3
<a href="#">PSB 4810</a>	Neurobiology of Learning and Memory	3
<a href="#">PSB 4823</a>	Principles of Integrative Physiological Psychology	3
<a href="#">WIS 3553C</a>	Introduction to Conservation Genetics	4
<a href="#">WIS 4203C</a>	Landscape Ecology and Conservation	3
<a href="#">WIS 4443C</a>	Wetland Wildlife Ecology	4
<a href="#">WIS 4501</a>	Introduction to Wildlife Population Ecology	3
<a href="#">WIS 4547C</a>	Avian Field Techniques	2
<a href="#">WIS 4554</a>	Conservation Biology	3
<a href="#">WIS 4601C</a>	Quantitative Wildlife Ecology	3
<a href="#">WIS 4945C</a>	Wildlife Techniques	4
<a href="#">ZOO 3513C</a>	Animal Behavior	4
<a href="#">ZOO 3603C</a>	Evolutionary Developmental Biology	4
<a href="#">ZOO 3713C</a>	Functional Vertebrate Anatomy	4
<a href="#">ZOO 4205C</a>	Invertebrate Biodiversity	4
<a href="#">ZOO 4232</a>	Human Parasitology	3
<a href="#">ZOO 4307C</a>	Vertebrate Biodiversity	4
<a href="#">ZOO 4403C</a>	Marine Biology	4
<a href="#">ZOO 4472C</a>	Avian Biology	4
<a href="#">ZOO 4926</a>	Special Topics in Zoology	1-4
<a href="#">ALS3153</a>	<b>Agricultural Ecology</b>	<b>3</b>
<a href="#">SWS 4223</a>	<b>Environmental Biogeochemistry</b>	<b>3</b>
<a href="#">BMS4136C</a>	<b>Human Histology</b>	<b>4</b>
<a href="#">APK2100C</a>	<b>Applied Human Anatomy</b>	<b>4</b>
<a href="#">ANT3514C</a>	<b>Introduction to Biological Anthropology</b>	<b>4</b>

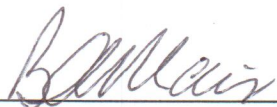
Memorandum of Understanding

The Biology major is jointly offered by CALS and CLAS and is administered by the cross-college Biology Major Executive Committee (BMEC), which consists of three faculty from each of the two colleges, an Associate Dean from each college, and the Undergraduate Coordinator, who serves both colleges.

The Pre-Professional tracks in the Biology major have almost 100 approved electives. This large number of electives is a strength of the major, but it also necessitates frequent changes in the approved electives as new courses are added, old courses are no longer offered, and existing courses change focus. The proposed procedure below seeks to streamline the approval process for changing electives in the major while still ensuring that all relevant units have approved any proposed changes.

For the purposes of changes in electives for BLY and BIO, the undersigned agree that the BMEC may function as the college-level curriculum committee and may make recommendations on changes in electives directly to the appropriate Associate Dean in each college. Upon the approval of the Associate Deans, the proposed changes may be submitted to the Associate Provost for Undergraduate Affairs via the UF Academic Approval Tracking System. The specific procedure is as follows:

1. The Biology Major Executive Committee (BMEC) will evaluate courses for approval as electives in BLY and BIO.
2. As part of the evaluation process, the BMEC will confirm that the department offering any proposed elective course agrees to the proposal.
3. The BMEC Chair will send a memo to the Associate Deans overseeing the CALS and CLAS curriculum committees describing the proposed changes. This should include confirmation that the departments offering the courses have agreed to the proposed changes.
4. Upon approval from the Associate Deans, the proposed changes will be submitted through the Academic Approval Tracking system.
5. The office of the Associate Provost for Undergraduate Affairs may then submit the proposed changes to the University Curriculum Committee (UCC) or approve the changes without UCC review.



11.06.12

Bernard Mair  
Associate Provost, Undergraduate Affairs



11/6/12

David Pharies  
Associate Dean, CLAS



Elaine Turner  
Associate Dean, CALS



10/30/12

David Julian  
Director, Biology Major Program

Biology Major Office

214 Bartram Hall  
PO Box 118525  
Gainesville, FL 32611-8525  
352-273-0116  
352-392-3704 Fax  
Major.biology.ufl.edu

TO: David Pharies, Associate Dean, CLAS  
Brian Harfe, Associate Dean, CLAS  
Joel Brendemuhl, Associate Dean, CALS

FROM: Teresa Mutahi, Assistant Director, Biology Major



DATE: September 12, 2018

SUBJECT: BMEC Approved Courses

The Biology Major Executive Committee (BMEC) has approved the following courses to meet physiology and additional life science (ALS) electives requirements.

1. ALS3153, *Agricultural Ecology*, approved as an ALS elective for the BIO-BA UFO track on April 17, 2018.
2. SWS 4223, *Environmental Biogeochemistry*, as an ALS elective for the BIO-BA UFO and BIO-BA residential tracks on April 17, 2018. Please note: for BIO-PRO and BLY-PRO tracks, this course was approved as an ALS elective on April 18, 2014.
3. BMS4136C, *Human Histology*, approved as an ALS elective for the BIO-BA residential track on September 17, 2017.
4. BSC3096, *Human Physiology*, as a third alternative course for the BIO-PRO and BLY-PRO Physiology requirement on February 1, 2017.
5. ENY 2890, *Scientific Engagement*, as ALS elective for BIO-PRO and BLY-PRO tracks on February 1, 2017. Please note: for BIO-BA Residential, this course was approved as an ALS elective on May 24, 2013.
6. APK2100C, *Applied Human Anatomy with Lab*, as an ALS elective for the BIO-BA residential and UFO tracks on December 3, 2015.
7. ANT3514C, *Introduction to Biological Anthropology*, as an ALS for the BIO-BA residential and UFO tracks on December 3, 2015.
8. PCB4553, *Population Genetics*, was approved as an ALS elective for BIO-PRO and BLY-PRO tracks on July 17, 2015.

BMEC requests a memo indicating your concurrence with this curricular change that we may include with our submittal through the Academic Approval System.

cc: Kelly Rice, Director, BMEC

## Bachelor of Science, Preprofessional Biology Approved Electives List

See course descriptions for prerequisites and requirements

Course List		
Code	Title	Credits
<a href="#">AGR 4320</a>	Plant Breeding	3
<a href="#">ALS 4161</a>	Exotic Species and Biosecurity Issues	3
<a href="#">ALS 4162</a>	Consequences of Biological Invasions	3
<a href="#">ALS 4163</a>	Challenges in Plant Resource Protection	3
<a href="#">ANS 3006</a> & <a href="#">3006L</a>	Introduction to Animal Science and Introduction to Animal Science Laboratory	4
<a href="#">ANS 3319C</a>	Reproductive Physiology and Endocrinology in Domestic Animals	4
<a href="#">ANS 3440</a>	Principles of Animal Nutrition	4
<a href="#">ANT 4531</a>	Molecular Genetics of Disease	3
<a href="#">ANT 4552</a>	Primate Behavior	3
<a href="#">ANT 4554C</a>	Primate Evolution	3
<a href="#">ANT 4586</a>	Human Evolution	3
<a href="#">BMS 4136C</a>	Human Histology	4
<a href="#">BOT 2710C</a>	Practical Plant Taxonomy	3
<a href="#">BOT 2800C</a>	Plants in Human Affairs	3
<a href="#">BOT 3151C</a>	Local Flora of North Florida	3
<a href="#">BOT 3503</a> & <a href="#">3503L</a>	Physiology and Molecular Biology of Plants and Physiology and Molecular Biology of Plants Laboratory	5
<a href="#">BOT 4621</a>	Plant Geography	2
<a href="#">BOT 4935</a>	Special Topics	1-4
<a href="#">BSC 1920</a>	First Year Introduction: Biology at UF	1
<a href="#">BSC 2862</a>	Global Change Ecology and Sustainability	3
<a href="#">BSC 3402</a>	Theory and Practice in the Biological Sciences	2
<a href="#">BSC 3422C</a>	Principles of the Biotechnology Industry	2
<a href="#">BSC 3911</a>	Entering Research in Biology	1
<a href="#">BSC 4821C</a>	Evolutionary Biogeography	3
<a href="#">BSC 4910</a>	Individual Mentored Research in Biology	0-3
<a href="#">BSC 4912</a>	Advanced Mentored Research in Biology	0-4
<a href="#">ENY 2890</a>	Using Insect Research to Understand the Nature of Scientific Engagement	3
<a href="#">ENY 3005</a> & <a href="#">3005L</a>	Principles of Entomology and Principles of Entomology Laboratory	3
<a href="#">ENY 3163</a>	Invertebrate Field Biology	3
<a href="#">ENY 3563</a>	Introduction to Tropical Entomology	3

## Course List

Code	Title	Credits
<a href="#">ENY 3564L</a>	Tropical Entomology Field Laboratory	2
<a href="#">ENY 4161</a>	Insect Classification	3
<a href="#">ENY 4210</a>	Insects and Wildlife	3
<a href="#">ENY 4453</a>	Behavioral Ecology and Systematics	3
<a href="#">ENY 4455C</a>	Social Insects	3
<a href="#">ENY 4660</a> & <a href="#">4660L</a>	Medical and Veterinary Entomology and Medical and Veterinary Entomology Laboratory	3
<a href="#">FAS 4202C</a>	Biology of Fishes	4
<a href="#">FAS 4305C</a>	Introduction to Fishery Science	3
<a href="#">FOR 3342C</a>	Tree Biology	3
<a href="#">GLY 3603C</a>	Paleontology	4
<a href="#">HOS 3305</a>	Introduction to Plant Molecular Biology	3
<a href="#">HOS 4304</a>	Horticultural Physiology	3
<a href="#">HOS 4313C</a>	Laboratory Methods in Plant Molecular Biology	2
<a href="#">HUN 4221</a>	Nutrition and Metabolism	3
<a href="#">HUN 4445</a>	Nutrition and Disease: Part 1	2
<a href="#">HUN 4446</a>	Nutrition and Disease: Part 2	3
<a href="#">MCB 4203</a>	Bacterial Pathogens	3
<a href="#">MCB 4304</a>	Genetics of Microorganisms	3
<a href="#">MCB 4320C</a>	The Microbiome	3
<a href="#">MCB 4403</a>	Prokaryotic Cell Structure and Function	3
<a href="#">MCB 4503</a>	General Virology	3
<a href="#">NEM 3002</a>	Principles of Nematology	3
<a href="#">PCB 3023</a>	Essential Cell Biology	3
<a href="#">PCB 3134</a>	Eukaryotic Cell Structure and Function	3
<a href="#">PCB 3601C</a>	Plant Ecology	3
<a href="#">PCB 4043C</a>	General Ecology	4
<a href="#">PCB 4085</a>	Genetical Ethics	1
<a href="#">PCB 4233</a>	Immunology	3
<a href="#">PCB 4522</a>	Molecular Genetics	3
<a href="#">PCB 4553</a>	Population Genetics	4
<a href="#">PCB 4674</a>	Evolution	4
<a href="#">PLP 3002C</a>	Fundamentals of Plant Pathology	4
<a href="#">PLS 3004C</a>	Principles of Plant Science	3
<a href="#">PLS 3223</a> & <a href="#">3223L</a>	Plant Propagation and Plant Propagation Laboratory	3

Course List

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<a href="#"><u>PSB 3002</u></a>	Physiological Psychology	3
<a href="#"><u>PSB 3340</u></a>	Behavioral Neuroscience	3
<a href="#"><u>PSB 4434</u></a>	Neurochemistry, Pharmacology and Behavior	3
<a href="#"><u>PSB 4504</u></a>	Developmental Psychobiology	3
<a href="#"><u>PSB 4654</u></a>	Chemical Senses and Behavior	3
<a href="#"><u>PSB 4810</u></a>	Neurobiology of Learning and Memory	3
<a href="#"><u>PSB 4823</u></a>	Principles of Integrative Physiological Psychology	3
<a href="#"><u>WIS 3553C</u></a>	Introduction to Conservation Genetics	4
<a href="#"><u>WIS 4203C</u></a>	Landscape Ecology and Conservation	3
<a href="#"><u>WIS 4443C</u></a>	Wetland Wildlife Ecology	4
<a href="#"><u>WIS 4501</u></a>	Introduction to Wildlife Population Ecology	3
<a href="#"><u>WIS 4547C</u></a>	Avian Field Techniques	2
<a href="#"><u>WIS 4554</u></a>	Conservation Biology	3
<a href="#"><u>WIS 4601C</u></a>	Quantitative Wildlife Ecology	3
<a href="#"><u>WIS 4945C</u></a>	Wildlife Techniques	4
<a href="#"><u>ZOO 3513C</u></a>	Animal Behavior	4
<a href="#"><u>ZOO 3603C</u></a>	Evolutionary Developmental Biology	4
<a href="#"><u>ZOO 3713C</u></a>	Functional Vertebrate Anatomy	4
<a href="#"><u>ZOO 4205C</u></a>	Invertebrate Biodiversity	4
<a href="#"><u>ZOO 4232</u></a>	Human Parasitology	3
<a href="#"><u>ZOO 4307C</u></a>	Vertebrate Biodiversity	4
<a href="#"><u>ZOO 4403C</u></a>	Marine Biology	4
<a href="#"><u>ZOO 4472C</u></a>	Avian Biology	4
<a href="#"><u>ZOO 4926</u></a>	Special Topics in Zoology	1-4
<b>ENY 2890</b>	<b>Scientific Engagement</b>	<b>3</b>
<b>PCB4553</b>	<b>Population Genetics</b>	<b>4</b>