CALS Curriculum Committee Meeting
September 16, 2016
2:00 p.m.
1031A McCarty Hall D


Agenda and Index for Materials

Approve Minutes from May 13, 2016 meeting

Dr. Brendemuhl: Update from UCC

Graduate New Course Proposal
1. MCB 6XXX – The Microbiome

Graduate Course Change Proposal
2. ANS 5312C – Applied Ruminant Reproductive Management

Undergraduate New Course Proposals
3. ANS 3XXX – Canine and Feline Genetics
   (Resubmission from 2/12/16)

4. ANS 4XXX – Applied Ruminant Management
   (Resubmission from 2/12/16)

5. ENY 2XXX – Using Insect Research to Understand the Nature of Scientific Engagement (Resubmission from 5/13/16)

Undergraduate Course Change Proposals
6. AEB 3144 – Introduction to Agricultural Finance

7. ANS 4218L – Horse Psychology and Training
   (Resubmission from 2/12/16)

8. ANS 4241L – Intermediate Horse Training
9. FYC 4622 – Planning and Evaluating Family, Youth, and Community Science Programs

10. MCB 4320C – Bacterial Genome Sequencing and Analysis

11. WIS 4941 – Practical Work Experience in Wildlife Ecology and Conservation
CALS Curriculum Committee Meeting
May 13, 2016
Submitted by James Fant


Substitutes: Bill Lindberg for M. Andreu
Bart Schutzman for H. Perez
Ricky Telg for N. Stedman
Derek Farnsworth for J. Kropp

Visitor: Kati Migliaccio

Call to Order: The College of Agricultural and Life Sciences Curriculum Committee met on May 13, 2016 in Rm. 1031A McCarty Hall D. Dr. Wendell Porter called the meeting to order at 2:00 p.m.

Previous agenda items and supporting material can be found on the CALS Curriculum Committee homepage under archived information:
http://www.cals.ufl.edu/faculty_staff/curriculum_committee.shtml

Approval of Minutes: A motion was made by Dr. Kolaczkowski to approve the minutes from the April 15, 2016 meeting of the CALS CC. The motion was approved.

All items approved by the committee will be forwarded to either the Graduate Curriculum Committee (GCC), Graduate Council (GC) or the University Curriculum Committee (UCC) once any changes requested are made and the submission is complete.


Due to Dr. Brendemuhl’s absence there was no update from the UCC.

Graduate New Course Proposal

1. AOM 6XXX – Irrigation Principles and Management
   A motion was made by Dr. Kolaczkowski to approve this item as submitted. The motion was approved.

2. FAS 5XXX – Introduction to Aquaculture
   A motion was made by Dr. Warren to recycle this item back to the department for edits and resubmission. The motion was approved. All missing sections of the syllabus need to be complete for future consideration. The committee requests an external consult form from the
3. FAS 5XXX – Biology of Fisheries and Aquaculture Invertebrates

A motion was made by Dr. Kolaczkowski to approve this item with edits required. The motion was approved. A title change to Biology of Invertebrate Fisheries and Aquaculture was proposed. A complete grading scale is required for both the UCC1 and syllabus. The committee requires an external consult from the Biology department to ensure there is no excessive overlap with an existing course. Please review the CALS Syllabus Statements policy at: http://cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy.

4. FAS 6XXX – Spatial Ecology and Modeling

A motion was made by Dr. Kolaczkowski to recycle this item back to the department for edits and resubmission. The motion was approved. All missing sections of the syllabus need to be complete for future consideration. The committee requests external consults from GIS and Wildlife. Fisheries should be added to the proposed course title or the course content should be changed. Please review the CALS Syllabus Statements policy at: http://cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy.

5. FAS 6XXX – Advanced Aquaculture

A motion was made by Dr. Telg to recycle this item back to the department for updates and resubmission. The motion was approved. All missing sections of the syllabus need to be complete for future consideration. A reading list must be included with the submission. If there is no required text, please provide example of potential reading material. Any reference to Sakai needs to be changed to Canvas. Please review the CALS Syllabus Statements policy at: http://cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy. In addition, advanced should be removed for the title. Advanced in the title is now reserved for 7000 level courses.

6. FAS 6XXX – Fish and Crustacean Nutrition

A motion was made by Dr. Farnsworth to recycle this item back to the department for edits and resubmission. The motion was approved. All missing sections of the syllabus need to be complete for future consideration. A reading list needs to be included. If there is no required text then provide examples of online readings. Please review the CALS Syllabus Statements policy at: http://cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy. The course title needs to be fixed on the syllabus.
7. FAS 6XXX – Trophic Ecology
   A motion was made by Dr. Farnsworth to recycle this item back to the department for edits and resubmission. The motion was approved. Consider a title change to Trophic Ecology of Fishes. A grading scale needs to be included on the UCC1 form. All missing sections of the syllabus need to be complete for future consideration. A reading list needs to be included. If there is no required text then provide examples of online readings. Please review the CALS Syllabus Statements policy at: [http://cals.ufl.edu/faculty/staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf](http://cals.ufl.edu/faculty/staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf) and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy. In all instances where there is a course description “Tropic” needs to be changed to “Trophic.”

8. FNR 6XXX – Natural Resources in a Changing Climate
   A motion was made by Dr. Inglett to recycle this item back to the department for edits and resubmission. The motion was approved. A more extensive reading list is required. Cite examples of peer-reviewed literature, technical papers and other documents in the additional resources section. The committee was concerned with the optional social media presentation section. They suggested the use of Canvas over Facebook. Also, the committee found the phrase, “Participation is optional but highly encouraged” slightly intimidating and suggested rewording and/or un-bolding the type. Please review the CALS Syllabus Statements policy at: [http://cals.ufl.edu/faculty/staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf](http://cals.ufl.edu/faculty/staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf) and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy.

9. FNR 6XXX – Conflict and Collaboration in Natural Resources
   A motion was made by Dr. Mathews to approve this item with changes required. The motion was approved. Complete missing sections of the syllabus. Replace any mention of Sakai with Canvas. Please review the CALS Syllabus Statements policy at: [http://cals.ufl.edu/faculty/staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf](http://cals.ufl.edu/faculty/staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf) and add appropriate statements. Also, include the links for grades and absences and make-ups found in the policy.

Undergraduate New Course Proposals

10. ANS 3006L – Introduction to Animal Science Laboratory
    A motion was made by Dr. Kolaczkowski to approve this item as submitted. The motion was approved.

11. ENY 2XXX – Using Insect Research to Understand the Nature of Scientific Engagement
    A motion was made by Dr. Kolaczkowski to recycle this item back to the department for edits and resubmission. The motion was approved. The committee suggests the proposed course title be shorter and that the title be more appropriately tied to the course content. A concern was raised as to whether this is a course in insect research or a research course with insect examples. This leads to the course objectives needing to be more insect related. The link to the university site on grading ([https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx)) needs to be included with the grading scale in the syllabus.
Undergraduate Course Change Proposals

12. ANS 3006C – Introduction to Animal Sciences
   A motion was made by Dr. Kolaczkowski to approve this item with edits required. The motion was approved. The exam section of the syllabus needs to include the link to the university’s make-up policy: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx. It is against university policy to require students to turn off their cell phones. Policy allows an instructor to require they be turned to silent mode.

13. ANS 4243C – Beef Cow/Calf Management (Previously approved 2/12/16)
   A motion was made by Dr. Telg to approve this item with changes required. The motion was approved. Include the link to university policy on grading in the grading section of the syllabus: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx. The committee is concerned that the make-policy for hour examinations violates university policy and suggest that the instructor’s policy mirror that of the university.

14. ORH 3513 – Environmental Plant Identification and Use (Previously submitted 4/15/16)
   (Reviewed with item #15)
   A motion was made by Dr. Telg to approve these two items as submitted. The motion was approved.

15. ORH 3513L – Environmental Plant Identification and Use Laboratory
   (Reviewed with item #14)
   See #14

Conclusion
   The meeting was adjourned at 3:47 p.m.
## Cover Sheet: Request 11006

### The Microbiome - new course request

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### Actions

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<td>CALS - Microbiology and Cell Science 514910000</td>
<td>Triplett, Eric</td>
<td></td>
<td>5/25/2016</td>
</tr>
</tbody>
</table>

- Added The Microbiome syllabus submitted.docx | 5/19/2016 |

- No document changes

- Graduate Curriculum Committee

- University Curriculum Committee Notified

- Statewide Course Numbering System

- Graduate School Notified

- Office of the Registrar

- College Notified

- No document changes
Course|New for request 11006

Info

Request: The Microbiome - new course request
Request description: Tools, analysis, and interpretation of the microbiome including a genomics class project.
Submitter: Oli, Monika moli@ufl.edu
Created: 5/19/2016 10:23:25 AM
Form version: 1

Responses

Recommended Prefix: MCB
Course Level: 6
Number: xxx
Lab Code: C
Course Title: The Microbiome
Transcript Title: The Microbiome
Effective Term: Earliest Available
Effective Year: Earliest Available
Rotating Topic: No
Amount of Credit: 3

Repeatable Credit: No

S/U Only: No
Contact Type: Regularly Scheduled
Degree Type: Graduate

Weekly Contact Hours: 3
Category of Instruction: Joint (Ugrad/Grad)
Delivery Method(s): Online
Course Description: Tools, analysis, and interpretation of the microbiome including a genomics class project.
Prerequisites: MCB 3020 or MCB 3023 with minimum grades of C.
Co-requisites: None

Rationale and Placement in Curriculum: This course is an important addition to our new online Master of Science in Microbiology & Cell Science with a concentration in Medical Microbiology and Biochemistry program exposing students to state of the art current information and technologies on the Microbiome.

Course Objectives: Course Objectives:
1. This course will introduce students to the modern technologies used in microbiome research.
2. This course will introduce students to the analysis of omics datasets.
3. This course will demonstrate how a genome sequence can be mined from a collection of genomes in a sample.
4. This course will introduce how genomics is used to understand the human microbiome and its role in human health.
5. This course will show the value of understanding microbial communities in the environment.
6. This course will introduce students to epigenomics, transcriptomics, and proteomics and how they are used to address questions of interest.
7. This course will allow students to participate in an on-going microbiome experiment and work in groups to write a manuscript on their results including the analysis and
interpretation of the data.

**Course Textbook(s) and/or Other Assigned Reading**

none

**Weekly Schedule of Topics**

<table>
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<tr>
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<td>Feb 6 - 10</td>
<td>Culturing organisms of interest from the microbiome</td>
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<td>Exam 1, February 8, available 5-10 PM</td>
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<td>Environmental influences on bacterial genomes: bacterial epigenome and its analysis</td>
</tr>
<tr>
<td>7</td>
<td>Feb 20 - 24</td>
<td>Learning the metabolic potential of the microbiome: metagenomics</td>
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<td>Exam 2, February 22, available 5-10 PM</td>
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<tr>
<td>8</td>
<td>Feb 27 - Mar 3</td>
<td>Gene expression in the microbiome - transcriptomics</td>
</tr>
<tr>
<td>9</td>
<td>Mar 13 - 17</td>
<td>RNA influencing gene expression: sRNA sequencing</td>
</tr>
<tr>
<td>10</td>
<td>Mar 20 - 24</td>
<td>Functions available in the microbiome - metaproteomics</td>
</tr>
</tbody>
</table>
Exam 3, March 29, available 5-10 PM
12 Apr 3 - 7 Microbiome experiment - data analysis and interpretation

13 Apr 10 - 14 Microbiome experiment - writing the paper

14 Apr 17 - 19 Microbiome experiment - writing the paper
15 April 27

Exam 4, available 5-10 PM

**Grading Scheme** Grading Scale:

- Percentage
- A 90 or above
- A- 87-89
- B+ 84-86
- B 80-83
- B- 77-79
- C+ 74-76
- C 70-73
- C- 67-69
- D+ 64-66
- D 60-63
- D- 57-59
- E 56 or below

**Additional Links and Policies** Make up and attendance policy: Please contact me directly regarding any serious illnesses, family emergencies, or prolonged absences that result in missed work. Any absences will require written verification. In most situations, quizzes missed due to minor illness will count among the 2 dropped quiz grades. As a student, it is your choice to take all quizzes and exams. If you choose to not take a quiz or exam because of another activity (work, social engagement, etc), then you will get a zero for the grade. If an exam in this course conflicts with an exam time for another course, please contact me as early in the semester as possible to coordinate an alternate exam time.

Excused absences are consistent with university policies in the undergraduate catalog (https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx) and require appropriate documentation.

Textbook: There is no required or recommended textbook.

Course structure: The course is structured as 14 Lessons – one each week of the semester. Each week will cover a different topic. The topics build on each other so in order to understand a topic in week 6, for example, it is necessary that you understand the material from week 1. The first 4 weeks of the course lay the foundation for the
remaining weeks.

Each week begins on Monday morning, which is the day by which a new week's worth of material will be posted. Every effort on my part will be made to post material prior to Mondays, but that may not always happen. Start by navigating to the Lessons page. Then, click on the appropriate week. For each week's lesson, there will be several items to complete. Click on the link for each item. The first item will be the learning objectives for the week. Keep the learning objectives in mind as you learn the week's material. If you meet the learning objectives, you should do very well on the quiz and the exams. After reading the learning objectives, please go through the week's material in the order presented. The next item in the list will usually be the reading assignment (a handout) followed by the lectures, and links to any online tutorials or modules. After you go through the material in the order presented, you are always free to return and visit any of the content. The introductory lecture will give an example of the types of course content and how it will be presented. The pdf of the lecture slides will also be posted each week for your convenience. This convenience is for students who wish to print out the slides and follow along with the lecture, study the notes later, etc. The lectures slides will only be available in pdf format.

Each quiz will be based on the content of two weeks of material. The quiz window will be open for one week at the end of those two weeks and will close at 9 PM Friday night every other week. If you only attempt a quiz once before 9 PM on Friday, that score is the one that will count for that week's quiz grade.

Academic Honesty: As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dsufl.edu/SCCR/honorcodes/honorcode.php.

Additional comments regarding academic integrity:
Students are encouraged to discuss material with each other from the course, help each other understand concepts, study together, and even discuss assessment questions with each other once the quiz window is closed. However, the following is considered academic dishonesty, and I expect that no student will ever do any of the following:

- Have another person complete a quiz in this course
- Copy another student's quiz in this course
- Collaborate with anyone during a quiz in this course
- Discuss the questions and answers of a quiz with other students while the quiz window is still open
- Manipulate and/or distribute any materials provided in this course for any purpose (including course lecture slides).
- Use any materials provided by a previous student in the course
Software Use: All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources: Students experiencing crisis or personal problems that interfere with their general well being are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

• University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
  • Counseling Services
  • Groups and Workshops
  • Outreach and Consultation
  • Self-Help Library
  • Training Programs
  • Community Provider Database

• U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.

• Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Students Requiring Accommodations: Students requesting class accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Statement on Distance Education Courses: Should you have any complaints with your experience in this course, please visit http://www.distance.ufl.edu/student-complaints.

Course Evaluation: Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

Instructor(s) Prof. Eric W. Triplett
The Microbiome
MCB 4320C/6xxx
3 credit hours

Prerequisite: MCB 3020 or MCB 3023 with minimum grades of C.

Catalog Description: Tools, analysis, and interpretation of the microbiome including a genomics class project.

Brief Description: This course has only biology and microbiology at the college level as a prerequisite and is intended for majors in the Life Sciences. It will be taught at the senior level and its primary objective is to increase genomics knowledge and appreciation. Environmental microbiologists began the study of uncultured microbial life in the early 1990s. The idea was to begin to understand the breadth of microbial diversity across a wide variety of habitats using methods that do not require culturing of the organisms.

During this period, the explosion in technology and data analysis also began in genomics. Environmental microbiologists took full advantage of these new tools and were able to find diverse life in many places. By about 2005, those outside of microbiology began to take notice of these new tools and became interested in discovering microbes associated with their environments of interest. That included biomedical scientists, ecologists, agriculturalists, taxonomists, entomologists, and others. This has led to a sea of papers in the field including and explosion of papers on the collection of microbes in association with eukaryotes.

What is the microbiome? The collection of microorganisms that inhabit a specific environment is referred to as the microbiome. Microbiomes exist on and within plants, animals, insects, amphibians, birds, etc. They also exist in niches to themselves in a wide variety of terrestrial, marine, and aquatic environments. Many of these environments are extreme including hot springs, deep ocean thermal vents, and subsurface rock formations.

Given the many environments in which microbiomes thrive, no single course or group of courses can hope to cover them adequately. But this course intends to teach students many of the modern tools available to analyze the microbiome and its role in a given environment. As a result, this course will provide students with experience using many of the molecular tools used in microbiome analysis including 16S rRNA sequencing, whole genome sequencing, epigenomics, transcriptomics, small RNA analysis, proteomics, and metabolomics. Some lessons learned on experimental design will also be included.

The course will be entirely web-based, and all lectures will be delivered online. The reading assignments, course lecture materials and online activities will be posted each week. There will be a quiz every two weeks and four exams.

Instructors:

Prof. Eric W. Triplett
Microbiology and Cell Science Department  
cwt@ufl.edu  
352-392-5430  
Skype username: ewtriplett  
Twitter: @ewtriplett

Graduate students from the Triplett lab will give lectures on the technologies they are using that apply to the microbiome.

The best ways to contact us is via E-learning mail or we can set up a time for individual phone calls or Skype sessions.

Course Objectives:
1. This course will introduce students to the modern technologies used in microbiome research.
2. This course will introduce students to the analysis of omics datasets.
3. This course will demonstrate how a genome sequence can be mined from a collection of genomes in a sample.
4. This course will introduce how genomics is used to understand the human microbiome and its role in human health.
5. This course will show the value of understanding microbial communities in the environment.
6. This course will introduce students to epigenomics, transcriptomics, and proteomics and how they are used to address questions of interest.
7. This course will allow students to participate in an on-going microbiome experiment and work in groups to write a manuscript on their results including the analysis and interpretation of the data.

e-Learning system: The course will be managed entirely through the e-Learning in the Canvas system (one of two big orange button at https://elearning.ufl.edu/). If you are not familiar with this system, you need to become acquainted with it for this course. The LSS homepage contains tips and tutorials for students as well as computer requirements. It is your responsibility to become familiar with e-Learning in Canvas and to ensure that you have the appropriate browsers, settings, internet speed, etc. For any technical questions regarding Canvas, please visit the e-Learning site (https://elearning.ufl.edu/help/Student_Faq) and/or the UF Help desk (http://helpdesk.ufl.edu/). They can address technical issues such as not being able to view course materials, not being able to access the quizzes, not being able to send mail, etc. All technical issues/questions/comments should go to the Help Desk first (352-392-HELP). They are the experts. The Help Desk suggests that if you encounter any problem (error messages, etc.) that you take a screen shot of the problem and save it. This will help the Help Desk in fixing your problem.

If you encounter a problem that the HELP DESK cannot fix, please send a help request to the Technical Support Center of the Microbiology & Cell Science Department. Please fill
out your request at http://microcell.ufl.edu/support/index.php. The form will ask for your name, number, email and location. In the location field, please indicate “online course.”

**Office Hours:** Since this is a web-based course, office hours will be online. The office hours will be conducted via the Meetings function in e-Learning in Canvas or via Skype. Office hours are difficult to schedule since our students have such varied schedules. We will always be available to answer questions by email or to set up an individual phone or Skype conversation. Just contact us to arrange.

**Email and Announcements:** All email communication regarding this course will be done through the mail function of E-learning in Canvas. This mail system is private and secure. It is your responsibility to check your E-learning Mail and Announcements frequently to stay updated on the course. Please check the course a minimum of two times per week to be certain that you are not missing any important communications. As the instructors, we will respond to your questions and emails promptly. By maintaining all email communication through Canvas instead of other email domains, it reduces the chance that discussions will get lost among outside accounts. When sending an email through e-Learning in Canvas, you have the option to also forward the email to the recipient’s ufl account. Please use this option if you have an urgent message. If you receive a course email (from Canvas) to your ufl account, please note that you cannot simply hit “reply” to the email. You must login to Canvas to respond through the mail function.

**Topical outline of weekly modules:**

<table>
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<tr>
<td>8</td>
<td>Feb 27 - Mar 3</td>
<td>Gene expression in the microbiome - transcriptomics</td>
</tr>
<tr>
<td>Date</td>
<td>Activity</td>
<td></td>
</tr>
<tr>
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<td>--------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>9 Mar 13 - 17</td>
<td>RNA influencing gene expression: sRNA sequencing</td>
<td></td>
</tr>
<tr>
<td>10 Mar 20 - 24</td>
<td>Functions available in the microbiome - metaproteomics</td>
<td></td>
</tr>
<tr>
<td>11 Mar 27 - Mar 31</td>
<td>Microbiome experiment - description and analysis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exam 3, March 29, available 5-10 PM</td>
<td></td>
</tr>
<tr>
<td>12 Apr 3 - 7</td>
<td>Microbiome experiment - data analysis and interpretation</td>
<td></td>
</tr>
<tr>
<td>13 Apr 10 - 14</td>
<td>Microbiome experiment - writing the paper</td>
<td></td>
</tr>
<tr>
<td>14 Apr 17 - 19</td>
<td>Microbiome experiment - writing the paper</td>
<td></td>
</tr>
<tr>
<td>15 April 27</td>
<td>Exam 4, available 5-10 PM</td>
<td></td>
</tr>
</tbody>
</table>

**Content for the 6xxx-level course:**
Graduate students will be asked to read and review recently-published papers from the current microbiome literature. On each exam, they will be asked to submit a summary of each paper read. There will be one reading assignment each week. Recent papers will be chosen from Elizabeth Bik's Microbiome Digest (https://microbiomedigest.com). This site provides daily updates on virtually all of the microbiome papers published.

**Grading Scale:**

<table>
<thead>
<tr>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
</tr>
<tr>
<td>A-</td>
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<tr>
<td>B+</td>
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<td>B</td>
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<td>D+</td>
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<tr>
<td>D</td>
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<tr>
<td>D-</td>
</tr>
<tr>
<td>E</td>
</tr>
</tbody>
</table>

For more information on grade points and UF grading policies, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

**Assessments**

**Exams:** Four proctored exams will be administered during the semester. Each exam is worth 22.5% of your grade. Specific details regarding the exams and proctoring will be given closer to the exam dates.
**Tentative exam date/times:**
- **Exam 1**
  - Wednesday, February 8
  - 5-10 PM
- **Exam 2**
  - Wednesday, February 22
  - 5-10 PM
- **Exam 3**
  - Friday, March 29
  - 5-10 PM
- **Exam 4**
  - Thursday, April 27
  - 5-10 PM

**Quizzes:** Brief quizzes will be given that cover every two weeks of material. These short quizzes will be open for one week and need to be completed by **Friday evening BY 9 PM** of every other week. Following the lectures and taking these quizzes ensures timely participation and progress in the course. These quizzes are a *learning tool* so you may take each quiz up to **three times each** and only your last score of each week’s quiz attempt will be recorded. Your quiz average will count for **10%** of your final grade. There will be a total of **7 quizzes** (one for every two weeks of course material). You can drop your 2 lowest quiz scores. Your dropped quiz grades will include any quizzes you miss for **any** reason. This includes minor illness, travel, meetings, and **technical problems** etc. Rarely, technical issues may occur while you are taking the timed quiz, and any quizzes affected by technical problems will count against your drops. A quiz will not be re-opened or reset if it is interrupted by technical difficulties. (NOTE: A slow Internet connection may affect timed quizzes, but it is your responsibility to use a connection at the speed suggested in the e-Learning homepage.)

Plan to take each quiz and save up your dropped quizzes for unexpected events like illness or technical problems. Only quizzes that have been submitted by students can be accessed for studying for exams. Therefore, even if you choose to use a week as a drop and do not study, try to take the quiz anyway by the deadline so you can still access the quiz questions at later date. If you do not take a quiz during the open quiz window, then you are shut out of the quiz, and it cannot be reopened for you.

Following the close of each quiz and exam window, you have 10 calendar days to contest your quiz/exam grade in an email to me (i.e., a student cannot request a grade correction on quiz 2 during the last week of the course). Please note that you can ask a question about or discuss any quiz/exam question at any time during the semester for the purposes of understanding and education.

**Assessment Breakdown**

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>22.5%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>22.5%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>22.5%</td>
</tr>
<tr>
<td>Exam 4</td>
<td>22.5%</td>
</tr>
<tr>
<td>Quizzes (average of 5 highest scores)</td>
<td>10%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Make up and attendance policy:** Please contact me directly regarding any serious illnesses, family emergencies, or prolonged absences that result in missed work. Any absences will require written verification. In most situations, quizzes missed due to minor
illness will count among the 2 dropped quiz grades. As a student, it is your choice to take all quizzes and exams. If you choose to not take a quiz or exam because of another activity (work, social engagement, etc), then you will get a zero for the grade. If an exam in this course conflicts with an exam time for another course, please contact me as early in the semester as possible to coordinate an alternate exam time.

Excused absences are consistent with university policies in the undergraduate catalog (https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx) and require appropriate documentation.

**Textbook:** There is no required or recommended textbook.

**Course structure:** The course is structured as 14 Lessons – one each week of the semester. Each week will cover a different topic. The topics build on each other so in order to understand a topic in week 6, for example, it is necessary that you understand the material from week 1. The first 4 weeks of the course lay the foundation for the remaining weeks.

Each week begins on Monday morning, which is the day by which a new week’s worth of material will be posted. Every effort on my part will be made to post material prior to Mondays, but that may not always happen. Start by navigating to the Lessons page. Then, click on the appropriate week. For each week’s lesson, there will be several items to complete. Click on the link for each item. The first item will be the learning objectives for the week. Keep the learning objectives in mind as you learn the week’s material. If you meet the learning objectives, you should do very well on the quiz and the exams. After reading the learning objectives, please go through the week’s material in the order presented. The next item in the list will usually be the reading assignment (a handout) followed by the lectures, and links to any online tutorials or modules. After you go through the material in the order presented, you are always free to return and visit any of the content. The introductory lecture will give an example of the types of course content and how it will be presented. The pdf of the lecture slides will also be posted each week for your convenience. This convenience is for students who wish to print out the slides and follow along with the lecture, study the notes later, etc. The lectures slides will only be available in pdf format.

Each quiz will be based on the content of two weeks of material. The quiz window will be open for one week at the end of those two weeks and will close at 9 PM Friday night every other week. If you only attempt a quiz once before 9 PM on Friday, that score is the one that will count for that week’s quiz grade.

**Academic Honesty:** As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”
It is assumed that you will complete all work independently in each course unless the
instructor provides explicit permission for you to collaborate on course tasks (e.g.
assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the
Honor Code, you should report any condition that facilitates academic misconduct to
appropriate personnel. It is your individual responsibility to know and comply with all
university policies and procedures regarding academic integrity and the Student Honor
Code. Violations of the Honor Code at the University of Florida will not be tolerated.
Violations will be reported to the Dean of Students Office for consideration of disciplinary
action. For more information regarding the Student Honor Code, please see:

Additional comments regarding academic integrity:
Students are encouraged to discuss material with each other from the course, help each
other understand concepts, study together, and even discuss assessment questions with each
other once the quiz window is closed. However, the following is considered academic
dishonesty, and I expect that no student will ever do any of the following:

- Have another person complete a quiz in this course
- Copy another student’s quiz in this course
- Collaborate with anyone during a quiz in this course
- Discuss the questions and answers of a quiz with other students while the quiz
  window is still open
- Manipulate and/or distribute any materials provided in this course for any purpose
  (including course lecture slides).
- Use any materials provided by a previous student in the course

Software Use: All faculty, staff, and students of the University are required and expected
to obey the laws and legal agreements governing software use. Failure to do so can lead to
monetary damages and/or criminal penalties for the individual violator. Because such
violations are also against University policies and rules, disciplinary action will be taken
as appropriate.

Campus Helping Resources: Students experiencing crisis or personal problems that
interfere with their general well being are encouraged to utilize the university’s counseling
resources. The Counseling & Wellness Center provides confidential counseling services at
no cost for currently enrolled students. Resources are available on campus for students
having personal problems or lacking clear career or academic goals, which interfere with
their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575,
  www.counseling.ufl.edu/cwc/
- Counseling Services
- Groups and Workshops
- Outreach and Consultation
- Self-Help Library
- Training Programs
- Community Provider Database

- *U Matter, We Care:* If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.

- *Career Resource Center,* First Floor JWRU, 392-1601, [www.crc.ufl.edu](http://www.crc.ufl.edu/)

**Students Requiring Accommodations:** Students requesting class accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. 0001 Reid Hall, 352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)

**Statement on Distance Education Courses:** Should you have any complaints with your experience in this course, please visit [http://www.distance.ufl.edu/student-complaints](http://www.distance.ufl.edu/student-complaints).

**Course Evaluation:** Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at [https://evaluations.ufl.edu](https://evaluations.ufl.edu). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [https://evaluations.ufl.edu/results/](https://evaluations.ufl.edu/results/).
Cover Sheet: Request 10761

ANS5312C Applied Ruminant Reproductive Management

<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
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<tr>
<td>Status</td>
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</tr>
<tr>
<td>Submitter</td>
<td>Yelich, Joel V <a href="mailto:yelich@ufl.edu">yelich@ufl.edu</a></td>
</tr>
<tr>
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<td>Updated</td>
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<td>Description</td>
<td>In depth assessment and application of bovine reproductive management practices that affect the efficiency of reproduction including managerial, physiological, biological, and economical.</td>
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<td>User</td>
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<td>Comment</td>
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<td>Updated</td>
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<td>Department Approved CALS - Animal Sciences 514909000 Mateescu, Raluca</td>
<td>3/11/2016</td>
</tr>
<tr>
<td>College Pending CALS - College of Agricultural and Life Sciences</td>
<td>3/11/2016</td>
</tr>
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No document changes

Graduate Curriculum Committee

No document changes

University Curriculum Committee Notified

No document changes

Statewide Course Numbering System

No document changes

Graduate School Notified

No document changes

Office of the Registrar

No document changes

College Notified

No document changes
Course|Modify for request 10761

Info

Request: ANS5312C Applied Ruminant Reproductive Managament
Request description: In depth assessment and application of bovine reproductive management practices that affect the efficiency of reproduction including managerial, physiological, biological, and economical.

Submitter: Brendemuhl, Joel H brendj@ufl.edu
Created: 9/8/2016 4:41:52 PM
Form version: 3

Responses
Current Prefix: ANS
Course Level: 5
Number: 312
Lab Code: C
Course Title: Applied Ruminant Reproductive Management
Effective Term: Earliest Available
Effective Year: Earliest Available
Requested Action: Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? Yes
Current Level: 5
Proposed Level: 6
Change Course Number? No

Change Lab Code? No

Change Course Title? No

Change Transcript Title? No

Change Credit Hours? Yes
Current Credit Hours: 3
Proposed Credit Hours: 4
Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No
Change Repeatable Credit? No
Change Course Description? No

Change Prerequisites? No

Change Co-requisites? No

Rationale: To add one contact hour of lecture. Cannot effectively cover all material and concepts in two contact hours of lecture. Do not have any time in the lab portion of course to cover these concept either. Changing course level to be consistent with a joint undergraduate/graduate offering.
ANS 5312C Fall XXXX  
(4 Credits)  
Applied Ruminant Reproductive Management  

Instructor: Dr. Joel V. Yelich  
Animal Sciences Building, Room 125sh  
Office Hours: Open or by appointment  
Voice: 352-392-7560  
E-Mail: yelich@ufl.edu  

Lecture: Tuesday, Thursday 10:40 AM - 12:00 PM (Period 4/5): Room 151 Animal Sciences Building  
Lab: Tuesday (Periods 6-9) 2:00 – 5:00 PM. Laboratories will be held at Animal Science Building, Dairy Unit, and Beef Units. Refer to laboratory schedule for weekly lab locations. 

Course Description: In depth assessment and application of bovine reproductive management practices that affect the efficiency of reproduction including managerial, physiological, biological, and economical 

Prerequisites: ANS 3319C Reproductive Physiology and Endocrinology of Farm Animals  

Learning Objectives:  
1) Discuss the underlying physiological mechanisms regulating components of ruminant reproductive management programs with emphasis in beef and dairy cattle.  
2) Introduce the utilization of emerging reproductive technologies including semen collection, semen cryopreservation, AI, estrous synchronization, embryo transfer, and IVF and discuss how these technologies can be incorporated into reproductive management programs in dairy and beef cattle.  
3) Demonstrate and provide hands on experience so students will learn how to determine pregnancy status by rectal palpation and artificially inseminate dairy and beef cattle.  
4) Be capable of solving reproductive management problems utilizing the reproductive technologies previously discussed with an emphasis on economic & production efficiency in beef & dairy operations.  

Textbook: There is no required textbook for the course. Reading assignments will come from research and popular press articles, extension fact sheets, and book chapters. See attached reading list.  

Grading & Exams:  
Two-hour exams (100 pts each)  
Final Written Exam (Cumulative)  
Final Oral exam  
Reproduction Plan (Plan 50 pts & Presentation 50 pts)  
Computer simulation on estrous synchronization economics  
Lab attendance (Each lab missed results in -5 pts)  
Lab worksheets (10 pts each)  
(Instructions provided at time of assignment)  
Research paper (10 page maximum) or EDIS publication  
(Paper can be either a review of the literature relative to dairy or beef reproductive management or an EDIS publication on a bovine reproductive management topic)  

Letter grades will be awarded on a percentage scale calculated from the points listed above:  

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>≥ 94</td>
</tr>
<tr>
<td>A-</td>
<td>90 to &lt; 94</td>
</tr>
<tr>
<td>B+</td>
<td>87 to &lt; 90</td>
</tr>
<tr>
<td>B</td>
<td>83 to &lt; 87</td>
</tr>
<tr>
<td>B-</td>
<td>80 to &lt; 83</td>
</tr>
<tr>
<td>C+</td>
<td>77 to &lt; 80</td>
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<tr>
<td>C</td>
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<tr>
<td>C-</td>
<td>70 to &lt; 73</td>
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<tr>
<td>D+</td>
<td>67 to &lt; 70</td>
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<tr>
<td>D</td>
<td>63 to &lt; 67</td>
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<tr>
<td>D-</td>
<td>60 to &lt; 63</td>
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<tr>
<td>E</td>
<td>&lt; 60</td>
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</tbody>
</table>

Total 900 pts  

Information regarding University Policy on grade point equivalencies and calculation of grade points can be found at this web address: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx  

Please note: This course is taught concomitant with ANS 4XXX, the undergraduate version of the course. Undergraduates will have different grading requirements compared to graduate students. The undergraduates will not be required to take the final oral exam or write a research paper but they will be required to perform the remainder of the graded tasks listed above.  

Exams:  
Exam 1 October, 1 (Thursday in class)  
Exam 2 November, 5 (Thursday in class)  
Final Exam: December, 18 (Friday 7:30-9:30 AM)
Attendance & Make-up Work: All requests to be excused from an exam must be submitted in writing or email by the student regardless of the reason. Any exam or assignment missed for reasons other than those listed below will not be excused and a grade of zero will be recorded.

1) Absence for a university-approved field trip, activity, or religious holiday (clear one week in advance).
2) Absence for death/serious illness in immediate family (verification by obituary).
3) Absence resulting from personal illness (verification consisting of a letter of explanation from hospital or doctor on official letterhead). Please review excuse note policy of the Student Health Care Center.
4) Other absences may be excused if consistent with university policies.

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at:

**Important Dates:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 7 (Monday)</td>
<td>Labor day (No classes).</td>
</tr>
<tr>
<td>Sept. 18 (Friday)</td>
<td>Deadline to withdraw and receive a 25% fee refund (W assigned).</td>
</tr>
<tr>
<td>Nov. 6 (Friday)</td>
<td>Homecoming (No classes).</td>
</tr>
<tr>
<td>Nov. 11 (Wednesday)</td>
<td>Veterans Day (No classes).</td>
</tr>
<tr>
<td>Nov. 23 (Monday)</td>
<td>Deadline to withdraw without receiving failing grades.</td>
</tr>
<tr>
<td>Nov. 25-28 (Wednesday - Friday)</td>
<td>Deadline to drop a course by petition without receiving a WF.</td>
</tr>
<tr>
<td>Dec. 9 (Wednesday)</td>
<td>Last Day of Classes.</td>
</tr>
<tr>
<td>Dec. 12, 14-18</td>
<td>Final Exams.</td>
</tr>
</tbody>
</table>

Online course Evaluation: Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu.

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Disability Issues: The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. 0001 Reid Hall, 392-8565, www.dso.ufl.edu/drc/

Software Use: All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.
Campus Assistance: Students experiencing crises or personal problems that interfere with their general well being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- **University Counseling & Wellness Center**, 3190 Radio Road, 352-392-1575  
  www.counseling.ufl.edu/cwc

  Counseling Services, Groups & Workshops, Outreach & Consultation, Self-Help Library, Wellness Coaching

- **Career Resource Center**, First Floor JWRU, 352-392-1601 www.crc.ufl.edu/

- **U Matter We Care**, www.umatter.ufl.edu/

If you are having problems comprehending lecture and (or) lab material or other academic, university, or personal issues that are affecting your academic performance, please feel free to visit with the instructors to address the problem(s). **Please do not wait until the end of the semester to address any difficulties you may be having.**

Student Complaints: Residential Course: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf

Online Course: http://www.distance.ufl.edu/student-complaint-process

Reading List:


<table>
<thead>
<tr>
<th>Week #</th>
<th>Lecture Topic</th>
<th>Lab Location and Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>ANS Bldg: Female Anatomy Review &amp; Pregnancy Determination</td>
</tr>
<tr>
<td>1</td>
<td>Reproductive Losses</td>
<td>Palpation</td>
</tr>
<tr>
<td>1</td>
<td>Review of the Estrous Cycle</td>
<td>Palpation</td>
</tr>
<tr>
<td>2</td>
<td>Puberty</td>
<td>Palpation</td>
</tr>
<tr>
<td>2</td>
<td>Puberty</td>
<td>Palpation</td>
</tr>
<tr>
<td>3</td>
<td>Heifer Development</td>
<td>Palpation</td>
</tr>
<tr>
<td>3</td>
<td>Heifer Development</td>
<td>Palpation</td>
</tr>
<tr>
<td>4</td>
<td>Estrous Synchronization</td>
<td>Palpation</td>
</tr>
<tr>
<td>4</td>
<td>Estrous Synchronization</td>
<td>Palpation</td>
</tr>
<tr>
<td>5</td>
<td>Estrous Synchronization</td>
<td>Palpation</td>
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<tr>
<td>5</td>
<td>Estrous Detection</td>
<td>Palpation</td>
</tr>
<tr>
<td>5</td>
<td>Artificial Insemination/Sexed Semen</td>
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<tr>
<td>6</td>
<td>Embryonic Development</td>
<td>Palpation</td>
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<tr>
<td>7</td>
<td>Pregnancy and Parturition</td>
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<td>Peripartum Management</td>
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<tr>
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<td>9</td>
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The instructor reserves the right to modify any part of the lecture and (or) lab syllabus at his discretion. There may also be times during the semester when it is necessary to modify the lecture/lab schedule and (or) material being presented. At such time, the instructor will make the necessary announcements in lecture/lab and (or) by email.
Cover Sheet: Request 10745

ANS3XXX Canine and Feline Genetics

Info

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No document changes
Course|New for request 10745

Info

Request: ANS3XX Canine and Feline Genetics
Request description: The course covers basic Mendelian genetics with direct application to dogs and cats. Lectures and lab exercises on basic genetic principles and inheritance of particular canine and feline characteristics will provide a more in depth understanding of how simple traits, including coat color and some common genetic disorders, are inherited.
Submitter: Brendemuhi, Joel H brendj@ufl.edu
Created: 9/9/2016 7:17:20 AM
Form version: 5

Responses
Recommended Prefix: ANS
Course Level: 4
Number: XXX
Lab Code: None
Course Title: Canine and Feline Genetics
Transcript Title: Canine Feline Genet
Effective Term: Earliest Available
Effective Year: Earliest Available
Rotating Topic: No
Amount of Credit: 3

Repeatable Credit: No
S/U Only: No
Contact Type: Regularly Scheduled
Degree Type: Baccalaureate

Weekly Contact Hours: 3
Category of Instruction: Advanced
Delivery Method(s): Online
Course Description: Application of genetic principles to canine and feline characteristics to provide an in depth understanding of how these traits are inherited. Information on new genomic technologies and their impact on studying inheritance of specific traits, including coat color and genetic disorders, are discussed.
Prerequisites: ANS 3384 or AGR 3303 or PCB 3063 or equivalent.
Co-requisites: None

Rationale and Placement in Curriculum: Many undergraduate students have a special interest in pet animals, particularly dogs and cats. This course provides a more in depth understanding of how simple and complex traits are inherited and how new genominc technologies are used to study these traits.

Course Objectives: 1. Understand the genetic inheritance of simple and complex traits in cats and dogs.
2. Describe the principles of recombination, gender and inheritance, epistasis as they apply to the inheritance of canine and feline traits.
3. Apply genetic principles to predict inheritance of coat color in cats and dogs.
4. Use probabilities and statistical tests to predict progeny distribution from different matings.
5. Explain the concept of genetic linkage and how can be applied in searching for genes controlling feline and canine traits.
6. Examine several case studies related to specific canine or feline genetic disorders and understand the technologies and steps needed to study these disorders.
7. Describe recent advances in genomic technologies and their impact on our ability to uncover the genetic basis of specific canine and feline disorders.

**Course Textbook(s) and/or Other Assigned Reading**

No formal text is required; readings include:
- Early Canid Domestication: The Farm-Fox Experiment (American Scientist)
- Perspectives on domestication: The history of our relationship with man’s best friend (J. of Animal Science)
- Feline Genetics: Clinical Applications and Genetic Testing (Topics in Companion Animal Medicine)
- Canine Morphology Hunting for Genes and Tracking Mutations (PLOS Reviews)
- The taming of the cat (Scientific American)
- Canine Behavioral Genetics: Pointing Out the Phenotypes and Herding up the Genes (The American journal of human genetics)
- International and collaborative strategies to enhance genetic health in purebred dogs (The veterinary journal)
- Deafness in blue-eyed white cats: The uphill road to solving polygenic disorders (The veterinary journal)
- State of cat genomics (Trends in genetics)
- Dogs really are man best friend (Briefings in functional genomics and proteomics)
- Genetic diversity, inbreeding and breeding practices in dogs: Results from pedigree analysis (The veterinary journal)
- Risk assessment in the improvement of inherited disorders in pedigree dogs (The veterinary journal)
- Identification of quantitative trait loci for osteoarthritis of hip joints in dogs (American Journal of Veterinary Research)
- Genetic and phenotypic variations of inherited retinal diseases in dogs: the power of within- and across-breed studies (Mammalian Genome)
- Canine Inherited Disorders (The journal of heredity)

**Weekly Schedule of Topics**

Week 1: Dog and Cat Domestication
- Week 2: Basic Genetic Concepts
- Week 3: Gender and Inheritance
- Week 4: Multiple Allelic Systems and Lethal Alleles
- Week 5: Epistasis
- Week 6: Genetics of Feline Coat Color
- Week 7: Genetics of Canine Coat Color
- Week 8: Probabilities
- Week 9: Testing Genetic Hypotheses
- Week 10: Linkage
- Week 11: Detecting Recessive Alleles
- Week 12: Canine Hip Dysplasia
- Week 13: Progressive Retinal Atrophy
- Week 14: Inherited Bleeding Disorders

**Grading Scheme**

Total 494 points;
- 11 Quizzes at 10 points each (110 points)
- 14 Assignments at 10 points each (140 points)
- 11 Discussions at 4 points each (44 points)
- Term Paper at 200 points

**Instructor(s)**

Raluca Mateescu
External Consultation Results (departments with potential overlap or interest in proposed course, if any)

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<tr>
<th>Department</th>
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<tr>
<td>Agronomy</td>
<td>Robert Gilbert, Professor and Chair</td>
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<tr>
<td>352 294-1583</td>
<td><a href="mailto:rgilber@ufl.edu">rgilber@ufl.edu</a></td>
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Comments

The Agronomy Department has reviewed the proposed syllabus for ANS 3xxx, Canine and Feline Genetics. While there is some overlap with AGR 3303 on topics such as gender and inheritance and epistasis this is to be expected. We note that since this specialty genetics course will require 3000 level prerequisites (including AGR 3303) you may want to offer it at the 4000 level. We have no objection to this course going forward.
external consultation results (departments with potential overlap or interest in proposed course, if any)

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<tr>
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<td>Marta L. Wayne</td>
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<td><a href="mailto:mlwayne@ufl.edu">mlwayne@ufl.edu</a></td>
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Comments

This is a nice addition to UF's upper division electives in genetics. I appreciate the addition of PCB 3063 as a pre-requisite and do not see any problems with overlap with our existing courses.
COURSE SYLLABUS

Course
ANS 4XXX On-line course
Fall 2016 — 3 Credits

Lecture
On line (Canvas website)

Instructor
Dr. Raluca Mateescu
Office: Room 202B, Animal Science – Bldg 459
Phone: (352) 392-2367
e-mail: raluca@ufl.edu

Course Description
Lectures, seminars and lab exercises on application of genetic principles to canine and feline characteristics will provide an in depth understanding of how these traits are inherited and analyzed. Information on new genomic technologies and their impact on studying specific traits, including coat color and genetic disorders, are discussed.

Pre-requisites
ANS 3384, AGR 3303, PCB 3063 or equivalent
Instructor

Instructor: Dr. Raluca Mateescu
E-mail: Please use the Inbox email tool in Canvas, or email raluca@ufl.edu
Virtual Office Hours: By appointment
Phone: 352-392-2367

The instructor will be available for students. Please make arrangements to visit at your convenience. If you call and I am not available, leave your name and telephone number or e-mail address and you will be contacted as soon as the message is received. The best method to reach me is through e-mail. DO NOT WAIT UNTIL EXAMINATION TIME!

It is important to keep up and not fall behind. Get started on the first day of class – do your homework on time, get help when you need it – and remember there is no substitute for DAILY PREPARATION. It is much easier on all of us if you get answers to questions one or two days after class rather than one or two days before an exam.

Course Description

Lectures, seminars and lab exercises on application of genetic principles to canine and feline characteristics will provide an in depth understanding of how these traits are inherited and analyzed. Information on new genomic technologies and their impact on studying specific traits, including coat color and genetic disorders, are discussed.

Learning Objectives

By the end of the semester, the student should be able to:

1. Define and recognize different theories domestication for cats and dogs.
2. Describe the principles of recombination, gender and inheritance, epistasis as they apply to the inheritance of canine and feline traits, use probabilities and statistical tests to predict progeny distribution from different matings.
3. Understand the principles of genetic testing and describe the process of tracking genes and mutations responsible for canine and feline traits.
4. Discuss the role of genetics in canine and feline behavior.
5. Identify and recognize how different coat color phenotypes are inherited in cats and dogs.
6. Examine several case studies related to specific canine or feline genetic disorders and understand the technologies and steps needed to study these disorders.
7. Describe recent advances in genomic technologies and their impact on our ability to uncover the genetic basis of specific canine and feline disorders.

Pre-requisites

ANS 3384, AGR 3303, PCB 3063 or equivalent
**Attendance Policy**

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: [https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx)

**Text**

No formal text is required. Students will be provided handouts, which are current and relevant to topics discussed in class. A suggested reading list is provided as well as links to free published sources.

**Grading Policy**

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Letter grades will be assigned based upon the following scale:

- **A**: 93-100%
- **B-**: 80-82.9%
- **B**: 85-89.9%
- **B+**: 87-89.9%
- **C-**: 70-72.9%
- **C**: 73-76.9%
- **C+**: 77-79.9%
- **D-**: 60-62.9%
- **D**: 63-66.9%
- **D+**: 67-69.9%
- **E**: 60% and Below

The scale may be lowered but will not be raised.

**Policy on Late Assignments**

Assignments are due on Monday by 5pm. They may be handed in late (with no penalty) **only** if it is arranged with the instructor. Otherwise there will be a **4 point penalty** per day.

No late quizzes or discussions will be allowed, unless arranged with the instructor—these will close on Canvas at the specified date/time and they will not be available past the deadline.

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: [https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx)
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General UF Information
Services for Students with Disabilities
Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Grades and Grade Points
For information on current UF policies for assigning grade points, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Online course evaluation process
Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

Software Use
All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Academic Honesty
UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Campus Helping Resources
Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
  Counseling Services, Groups and Workshops, Outreach and Consultation, Self-Help Library
  Wellness Coaching
- U Matter We Care, www.umatter.ufl.edu/
- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Student Complaint Process
For information see http://www.distance.ufl.edu/student-complaint-process.
Cover Sheet: Request 10760

ANS4XXX Applied Ruminant Reproduction

Info

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**Course|New for request 10760**

**Info**

**Request:** ANS4XXX Applied Ruminant Reproduction  
**Request description:** Provide an in depth overview of applied bovine reproductive management and the factors that affect the efficiency of reproduction including managerial, biological, and economical.  
**Submitter:** Imler, Amie M amie.taylor@ufl.edu  
**Created:** 5/4/2016 1:58:43 PM  
**Form version:** 4

**Responses**  
**Recommended Prefix** ANS  
**Course Level** 4  
**Number** XXX  
**Lab Code** C  
**Course Title** Applied Ruminant Reproductive Management  
**Transcript Title** Applied Rum Repro  
**Effective Term** Earliest Available  
**Effective Year** Earliest Available  
**Rotating Topic** No  
**Amount of Credit** 4

**Repeateable Credit?** No

**S/U Only?** No  
**Contact Type** Regularly Scheduled  
**Degree Type** Baccalaureate

**Weekly Contact Hours** 5  
**Category of Instruction** Joint (Ugrad/Grad)  
**Delivery Method(s)** On-Campus  
**Course Description** In depth assessment and application of bovine reproductive management practices that affect the efficiency of reproduction including managerial, physiological, biological, and economical.

**Prerequisites** ANS 3319C  
**Co-requisites** none

**Rationale and Placement in Curriculum** to provide students in Animal Sciences with an advanced ruminant reproductive management course that teaches them palpation and breeding skills needed for careers in the dairy and beef industry

**Course Objectives** 1) Discuss the underlying physiological mechanisms regulating components of ruminant reproductive management programs with emphasis in beef and dairy cattle.  
2) Introduce the utilization of emerging reproductive technologies including semen collection, semen cryopreservation, AI, estrous synchronization, embryo transfer, and IVF and discuss how these technologies can be incorporated into reproductive management programs in dairy and beef cattle.  
3) Demonstrate and provide hands on experience so students will learn how to determine pregnancy status by rectal palpation and artificially inseminate dairy and beef cattle.  
4) Be capable of solving reproductive management problems utilizing the reproductive technologies previously discussed with an emphasis on economic &
production efficiency in beef & dairy operations.

**Course Textbook(s) and/or Other Assigned Reading**

There is no required textbook for the course. Reading assignments will come from research and popular press articles, extension fact sheets, and book chapters.

**Reading List:**


**Weekly Schedule of Topics**

**Week 1**

Lecture - Introduction, Reproductive Losses, Review of the Estrous Cycle
Lab - ANS Bldg: Female Anatomy Review & Pregnancy Determination, Palpation

**Week 2:**

Lecture: Puberty
Lab: Palpation

**Week 3:**

Lecture: Heifer Development
Lab: Palpation

**Week 4:**

Lecture: Estrous Synchronization
Lab: Palpation

**Week 5:**

Lecture: Estrous Synchronization, Estrous Detection, Artificial Insemination/Sexed Semen
Lab: Palpation

**Week 6:**

Lecture: Embryonic Development
Lab: Palpation

**Week 7:**

Lecture: Pregnancy and Parturition
Lab: Palpation
Week 8:
Lecture: Peripartum Management
Lab: AI
Week 9:
Lecture: Postpartum Reproduction
Lab: AI
Week 10:
Lecture: Male Reproduction
Lab: AI
Week 11:
Lecture: Cyropreservation of Semen, Breeding Soundness Exam
Lab: AI
Week 12: Breeding Soundness Exam
Lab: AI
Week 13:
Lecture: Breeding Season Management
Lab: AI
Week 14:
Lecture: Embryo Transfer, Reproductive Management/Economics
Lab: Southeastern Semen Services Field Trip
Week 15:
Lecture: Reproductive Management/Economics
Lab: Breeding Soundness Exams
Week 16:
Lecture: Repro Plan Presentations
Lab: Embryo Transfer

**Grading Scheme**
Two-hour exams (100 pts each) 200 pts
Final Written Exam (Cumulative) 200 pts
Reproduction Plan (Plan 50 pts & Presentation 50 pts) 100 pts total (Computer simulation on estrous synchronization economics)
Lab attendance (Each lab missed results in -5 pts) 100 pts
Lab assignments (10 pts each) 50 pts total
(Instructions provided at time of assignment)
Total 650 pts

A = 94
A- = 90 to < 94
B+ = 87 to < 90
B = 83 to < 87
B- = 80 to < 83
C+ = 77 to < 80
C = 73 to < 77
C- = 70 to < 73
D+ = 67 to < 70
D = 63 to < 67
D- = 60 to < 63
E< 60

**Instructor(s)** Joel Yelich
ANS 4XXX C Fall XXXX
(4 Credits)
Applied Ruminant Reproductive Management

Instructor: Dr. Joel V. Yelich
Office Hours: Open or by appointment
Animal Sciences Building, Room 125h
Voice: 352-392-7560 E-Mail: yelich@ufl.edu

Lecture: Tuesday, Thursday 10:40 AM - 12:00 PM (Period 4/5): Room 151 Animal Sciences Building

Lab: Tuesday (Periods 6-9) 2:00 – 5:00 PM. Laboratories will be held at Animal Science Building, Dairy Unit, and Beef Units. Refer to laboratory schedule for weekly lab locations.

Course Description: In depth assessment and application of bovine reproductive management practices that the efficiency of reproduction including managerial, physiological, biological, and economical

Prerequisites: ANS 3319C Reproductive Physiology and Endocrinology of Farm Animals

Learning Objectives:
1) Discuss the underlying physiological mechanisms regulating components of ruminant reproductive management programs with emphasis in beef and dairy cattle.
2) Introduce the utilization of emerging reproductive technologies including semen collection, semen cryopreservation, AI, estrous synchronization, embryo transfer, and IVF and discuss how these technologies can be incorporated into reproductive management programs in dairy and beef cattle.
3) Demonstrate and provide hands on experience so students will learn how to determine pregnancy status by rectal palpation and artificially inseminate dairy and beef cattle.
4) Be capable of solving reproductive management problems utilizing the reproductive technologies previously discussed with an emphasis on economic & production efficiency in beef & dairy operations.

Textbook: There is no required textbook for the course. Reading assignments will come from research and popular press articles, extension fact sheets, and book chapters. See attached reading list.

Grading & Exams:

- Two-hour exams (100 pts each) 200 pts
- Final Written Exam (Cumulative) 200 pts
- Reproduction Plan (Plan 50 pts & Presentation 50 pts) 100 pts
  (Computer simulation on estrous synchronization economics)
- Lab attendance (Each lab missed results in -5 pts) 100 pts
- Lab assignments (10 pts each) 50 pts

Total 650 pts

Letter grades will be awarded on a percentage scale calculated from the points listed above:

- A: ≥ 94
- A-: ≥ 90 to < 94
- B+: ≥ 87 to < 90
- B: ≥ 83 to < 87
- C+: ≥ 77 to < 80
- C: ≥ 73 to < 77
- D+: ≥ 67 to < 70
- D: ≥ 63 to < 67
- E: ≤ 60
- D-: ≥ 60 to < 63

Information regarding University Policy on grade point equivalencies and calculation of grade points can be found at this web address: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Please note: This course is taught concomitant with ANS 5312C, the graduate student version of the course. The graduate students will have different grading requirements compared to the undergraduate students. The graduate students will be required to perform all of the graded task as listed above and they will also be required to take a final oral exam and write a research paper.

Exams:
- Exam 1: October 1 (Thursday in class)
- Exam 2: November 5 (Thursday in class)
- Final Exam: December 18 (Friday 7:30-9:30 AM)
**Attendance & Make-up Work:** Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: [https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx). **All requests to be excused from an exam must be submitted in writing or email by the student regardless of the reason.**

1. Absence for a university-approved field trip, activity, or religious holiday (clear one week in advance if possible).
2. Absence for death/serious illness in immediate family (verification by obituary or doctor’s note on official letterhead).
3. Absence resulting from personal illness (verification consisting of a letter of explanation from hospital or doctor on official letterhead). Please review [excuse note policy of the Student Health Care Center](https://catalog.ufl.edu/).

### Important Dates:
- Sept. 7 (Monday): Labor day (No classes).
- Sept. 18 (Friday): Deadline to withdraw and receive a 25% fee refund (W assigned).
- Nov. 6 (Friday): Homecoming (No classes).
- Nov. 11 (Wednesday): Veterans Day (No classes).
- Nov. 23 (Monday): Deadline to withdraw without receiving failing grades.
- Nov. 25-28 (Wednesday - Friday): Deadline to drop a course by petition without receiving a WF.
- Dec. 9 (Wednesday): Thanksgiving (no classes).
- Dec. 12, 14-18: Last Day of Classes.
- Final Exams.

### Online course Evaluation:
Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at [https://evaluations.u.edu](https://evaluations.u.edu). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [https://evaluations.u.edu](https://evaluations.u.edu).”

### Academic Honesty:
As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: [http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php](http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php).

### Disability Issues:
The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. 0001 Reid Hall, 392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)

### Software Use:
All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.
Students experiencing crises or personal problems that interfere with their general well being are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

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  [www.counseling.ufl.edu/cwc](http://www.counseling.ufl.edu/cwc)
- Counseling Services, Groups & Workshops, Outreach & Consultation, Self-Help Library, Wellness Coaching
- **Career Resource Center**, First Floor JWRU, 352-392-1601 [www.crc.ufl.edu](http://www.crc.ufl.edu)
- **U Matter We Care**, [www.umatter.ufl.edu](http://www.umatter.ufl.edu)

If you are having problems comprehending lecture and (or) lab material or other academic, university, or personal issues that are affecting your academic performance, please feel free to visit with the instructors to address the problem(s). **Please do not wait until the end of the semester to address any difficulties you may be having.**

**Student Complaints:** Residential Course: [https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf](https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf)

**Reading List:**


# ANS 4xxxC Lecture and Lab Schedule

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The instructor reserves the right to modify any part of the lecture and (or) lab syllabus at his discretion. There may also be times during the semester when it is necessary to modify the lecture/lab schedule and (or) material being presented. At such time, the instructor will make the necessary announcements in lecture/lab and (or) by email.
## Cover Sheet: Request 10991

### ENY2XXX

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University Curriculum Committee

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Statewide Course Numbering System

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Office of the Registrar

No document changes

Student Academic Support System

No document changes

Catalog

No document changes

College Notified

No document changes
Course|New for request 10991

Info

Request: ENY2XXX
Request description: This is a Classroom Undergraduate Research Experience (CURE) course. Students become part of a research team, collecting publishable data on evolution, ecology, and systematic research using insects. This course bridges the divide between the classroom and the science laboratory. This course will prepare students for advanced opportunities in science.
Submitter: Miller, Christine Whitney cmiller@ufl.edu
Form version: 2

Responses
Recommended Prefix ENY
Course Level 2
Number XXX
Lab Code None
Course Title Using insect research to understand the nature of scientific engagement
Transcript Title Insect Research
Effective Term Earliest Available
Effective Year Earliest Available
Rotating Topic? No
Amount of Credit 3

Repeatable Credit? No

S/U Only? No
Contact Type Regularly Scheduled
Degree Type Baccalaureate

Weekly Contact Hours 3
Category of Instruction Introductory
Delivery Method(s) On-Campus
Course Description This is a Classroom Undergraduate Research Experience (CURE) course. Students become part of an entomology research team, collecting publishable data on insect evolution, ecology, and systematics. This course bridges the divide between the classroom and the science laboratory. This course will prepare students for advanced opportunities in entomological science.
Prerequisites none
Co-requisites none
Rationale and Placement in Curriculum Our entomology program is currently lacking courses that prepare students for entomology research.

Our goal is to target first-year students so that they will be ready to join research labs early in their undergraduate years and make the most of their time at UF.

This course will also provide excellent preparation for graduate school and professional programs in the sciences.
Course Objectives • Be able to explain in depth the many ways that entomologists and other scientists engage in research
• Identify how their work as part of this course will contribute to the scientific body of knowledge in the field of entomology.
• Develop enhanced critical thinking skills to assess the relevance and importance of scientific findings in entomology.
• Design a simple experiment using insects
• Recognize of the major challenges for conveying entomological findings to the general public and be able to explain how to overcome these challenges.
• Demonstrate competency in at least one method of data collection using insects
• Explain three major concerns in the field of science ethics and how they relate to entomology
• Be able to identify several other research opportunities in entomology at UF

Course Textbook(s) and/or Other Assigned Reading

Representative list


Weekly Schedule of Topics

Week 1 Monday Welcome to the course, introductions and a discussion on the nature of science
Wednesday Asking a question when science does not know the answer
Each student receives an insect for observation

Week 2 Monday Research this semester: background and interpretation
Wednesday Introduction to our research (insect evolution, ecology, and systematics)
Begin data collection (each week until Week 10)

Week 3 Monday Interpretation and analysis of scientific manuscripts in entomology
Wednesday An introduction to field work (insect sampling and monitoring); Field Trip #1

Week 4 Monday Causation versus correlation in insect science
Wednesday Whom will this study inform? Extension, outreach, and publishing

Week 5 Monday Objectivity and evaluation in insect science
Wednesday Oral presentations of articles from the primary scientific literature: Day I

Week 6 Monday Science ethics and relevance to entomology
Wednesday Oral presentations of articles from the primary scientific literature: Day II

Week 7 Monday Science and the media in entomology
Wednesday Communicating science to the public through short research videos: practice 1

Week 8 Monday Public trust versus distrust of science, what are the issues in entomology?
Wednesday Communicating science to the public through short research videos: completion

Week 9 Monday Evolution and intelligent design: what is the discussion?
Wednesday Guest speakers: undergraduate researchers from across campus

Week 10 Monday Communication of insect science to broad and diverse audiences
Wednesday Guest speakers: faculty from across campus

Week 11 Monday Research this semester: what have we found? Let’s look at
your data.
Wednesday  Exploring data: Graphing and Data analysis in entomology

Week 12  Monday  Research this semester: what is next? Experimental design and planning.
Wednesday  Plan a research project with insects I

Week 13  Monday  Research this semester: what is next? Experimental design and planning II
Wednesday  Plan a research project with insects II

Week 14  Monday  Publishing in peer-reviewed insect journals
Wednesday  Visits to entomology laboratories

Week 15  Monday  Your future research: discussion of opportunities, concerns, and applications
Wednesday  Celebrate! Video viewing, discussion, future directions

Grading Scheme
"What is Science?" essay  20
Canvas weekly quizzes (11 quizzes, 10pts/each) 110
Participation (29 meetings at 5pts/meeting) 145
Presentation of primary literature (including mandatory meeting with instructor prior to presentation) 50
Research video (2-3 minutes)  50
Data collection accuracy  50
Total  425

Additional Links and Policies
Instructor(s) Christine W. Miller
Dear Christine,

Thanks so much for sharing the syllabus of your proposed class, Using insect research to understand the nature of scientific engagement. I think the syllabus looks great and I love the idea of CURE courses. I do not see any conflicts with Biology offerings; I’m cc’ing our Associate Chairs just to keep them in the loop. I hope to see more of them! We’re lucky to have you on campus.

Yours,

Marta

Marta Wayne, Chair of Biology Department
Insect research and scientific engagement

Course number ENY 2XXX

3 credits, no prerequisites

Location: Entomology and Nematology Department, Steinmetz Hall 1031

Meeting time: Discussions- Monday 9:35 to 10:25am (Period 3)

Research- Wednesday 9:35am to 11:30am (Periods 3 & 4) or 3:00pm to 4:55pm (Periods 8 & 9). Students will be divided into two sections for the research portion of the class.

Primary Instructor:

Dr. Christine Miller, Principle Investigator, cwmiller@ufl.edu,
Office location: 2101 Steinmetz Hall, (352) 273-3917
Office hours: 10:30 – 11am Tuesdays and Thursdays

Course description

This is a Classroom Undergraduate Research Experience (CURE) course. Students become part of an entomology research team, collecting publishable data on insect evolution, insect ecology, and insect systematics. This course bridges the divide between the classroom and the science laboratory. This course will prepare students for advanced opportunities in entomological science.

For further explanation of CURE courses, see:
https://www.grinnell.edu/academics/areas/psychology/assessments/cure-survey.

This course mimics a laboratory research experience in several ways: 1) students gather data that will be used in scientific studies and published in the primary scientific literature, 2) Our class meetings resemble lab meetings where researchers come together to discuss important topics in science, 3) your instructors (including graduate students and a postdoctoral researcher) will also serve as your research mentors, with the mentoring structure resembling that of a research laboratory.

While this course has elements that resemble laboratory research experiences, it finds its home in the classroom. As such, we will incorporate some of the more positive
elements of classroom learning. For example, the learning experience will have greater structure than is commonly provided in laboratories, and students will collect data almost immediately (in many laboratories, beginning assistants do not collect data for a semester or longer!) Additionally, this course will include a larger community of beginning researchers than is typically found in a laboratory. You will have many opportunities to exchange ideas with your cohort and become part of a learning community. Hard-working students leave this course prepared to join research teams at UF and beyond.

Course learning objectives:

By the end of the course, dedicated students will:

- Be able to explain in depth the many ways that entomologists and other scientists engage in research
- Identify how their work as part of this course will contribute to the scientific body of knowledge in the field of entomology.
- Develop enhanced critical thinking skills to assess the relevance and importance of scientific findings in entomology.
- Design a simple experiment using insects
- Recognize of the major challenges for conveying entomological findings to the general public and be able to explain how to overcome these challenges.
- Demonstrate competency in at least one method of data collection using insects
- Explain three major concerns in the field of science ethics and how they relate to entomology
- Be able to identify several other research opportunities in entomology at UF

Materials:

- Required: Access to a laptop or desktop computer for data entry. A computer in a computer lab on campus should be fine for this purpose.
- All other reading materials and media will be available on Canvas or freely available on the internet.
Evaluation of learning/research accomplishment:

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<tr>
<th>Source of points</th>
<th>Points possible</th>
<th>Due dates</th>
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<tbody>
<tr>
<td>“What is Science?” essay</td>
<td>20</td>
<td>Week 2</td>
</tr>
<tr>
<td>Canvas weekly quizzes (11 quizzes, 10pts/each)</td>
<td>110</td>
<td>Weekly</td>
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<td>Participation (29 meetings at 5pts/meeting)</td>
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<tr>
<td>Presentation of primary literature (including mandatory meeting</td>
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<td>Weeks 5 &amp;</td>
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<tr>
<td>with instructor prior to presentation)</td>
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<td>6</td>
</tr>
<tr>
<td>Research video (2-3 minutes)</td>
<td>50</td>
<td>Week 8</td>
</tr>
<tr>
<td>Data collection accuracy</td>
<td>50</td>
<td>Throughout</td>
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<td><strong>Total</strong></td>
<td><strong>425</strong></td>
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**Grade cut-offs:**

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<td>B</td>
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<td>B-</td>
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<td>C+</td>
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**Explanation of course activities and grading:**

Evaluation of performance is based on fifteen assessments and participation in the course. This course does not have exams. UF grades and grading policies can be found at [https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx).

**Participation** is important, and this is reflected in your course grade! Excused absences are consistent with university policies in the undergraduate catalog ([https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx)) and require appropriate documentation. Participation points are earned by your presence at each class meeting (discussions/presentations and the laboratory portion of the class). Please note that we will expect all students to participate in discussions and will design activities to facilitate this process. This is a "flipped classroom" course.

Preparation for in-class discussions. **Online quizzes** must be completed every night prior to weekly discussions. These will involve answering a set of questions based on the reading(s) and providing thoughtful discussion points or questions that you plan to bring up in the next class. These assignments are designed to help students focus on the material that will be addressed during the class discussions and prepare students to participate fully in the discussions. These assignments will be posted by Friday evening and must be completed the night before class (or you will lose 5 points/day).
Presentations are an opportunity for students to deeply analyze a peer-reviewed scientific paper and present the material to the class, gaining public speaking skills and critical thinking skills. Students will work in pairs, and each pair must choose a topic from the provided list by early in the semester. An instructor will work with the students to prepare presentations.

The Research video will give you an opportunity to show off your science communication skills and explain one or more projects going on at UF. You will be expected to bring your video script to class, receive critical feedback, make improvements, and then record it using your phone or our camcorders.

Data collection accuracy is graded to ensure that we actually can use these data to make scientific conclusions. It is easy to get sloppy in data collection if there is no accountability. You will receive a lot of guidance in how to collect data accurately. You are expected to make an appointment with the designated instructor if you are having any problems. Each week you will be assigned work to do. We will check a subset of your work for accuracy. If your recorded data is considered accurate or very close, you will receive accuracy points. As an additional means of ensuring data accuracy, many insects will be measured by multiple students in the course. Each weekly set of measurements is due on Sunday night.

Due dates are firm, unless you have a valid excuse (again, see UF policy, https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx). If you know you have a conflict with something, inform us right away! We follow a 5pt/day deduction late work policy.

Class/Research Schedule. Monday meetings are guided classroom discussions on a topic, Wednesdays are for research and presentations. Students will be divided into two or more research sections with 7-15 students per section.

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<tr>
<th>Week</th>
<th>Day</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Monday</td>
<td>Welcome to the course, introductions and a discussion on the nature of science</td>
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<td>Wednesday</td>
<td>Asking a question when science does not know the answer</td>
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<td></td>
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<td>Each student receives an insect for observation</td>
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<tr>
<td>Week 2</td>
<td>Monday</td>
<td>Research this semester: background and interpretation</td>
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<td></td>
<td>Wednesday</td>
<td>Introduction to our research (insect evolution, ecology, and systematics)</td>
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<td>Begin data collection (each week until Week 10)</td>
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<td>Week 3</td>
<td>Monday</td>
<td>Interpretation and analysis of scientific manuscripts in entomology</td>
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<td>Wednesday</td>
<td>An introduction to field work (insect sampling and monitoring); Field Trip #1</td>
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<td>Week 4</td>
<td>Monday</td>
<td>Causation versus correlation in insect science</td>
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<td>Wednesday</td>
<td>Whom will this study inform? Extension, outreach, and publishing</td>
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<td>Week 5</td>
<td>Monday</td>
<td>Objectivity and evaluation in insect science</td>
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<td>Wednesday</td>
<td>Oral presentations of articles from the primary scientific literature: Day I</td>
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<tr>
<td>Week 6</td>
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<td>Science ethics and relevance to entomology</td>
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<td>Wednesday</td>
<td>Oral presentations of articles from the primary scientific literature: Day II</td>
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<td>Week 7</td>
<td>Monday</td>
<td>Science and the media in entomology</td>
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<td>Wednesday</td>
<td>Communicating science to the public through short research videos: practice I</td>
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<td>Monday</td>
<td>Public trust versus distrust of science, what are the issues in entomology?</td>
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<td>Wednesday</td>
<td>Communicating science to the public through short research videos: completion</td>
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<td>Week 9</td>
<td>Monday</td>
<td>Evolution and intelligent design: what is the discussion?</td>
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<td>Wednesday</td>
<td>Guest speakers: undergraduate researchers from across campus</td>
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<tr>
<td>Week 10</td>
<td>Monday</td>
<td>Communication of insect science to broad and diverse audiences</td>
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<td>Wednesday</td>
<td>Guest speakers: faculty from across campus</td>
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<td>Week 11</td>
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<td>Research this semester: what have we found? Let's look at your data.</td>
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<td>Wednesday</td>
<td>Exploring data: Graphing and Data analysis in entomology</td>
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<td>Research this semester: what is next? Experimental design and planning.</td>
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<td>Wednesday</td>
<td>Plan a research project with insects I</td>
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<td>Research this semester: what is next? Experimental design and planning II</td>
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<td>Wednesday</td>
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</table>

**Grades and Grade Points**
For information on current UF policies for assigning grade points, see
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

**Attendance and Make-Up Work**
Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at:

**Online Course Evaluation Process**
Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.

**Academic Honesty**
As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I
have neither given nor received unauthorized aid in doing this assignment." It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code.

Software Use: All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Services for Students with Disabilities: The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Campus Helping Resources
Students experiencing crises or personal problems that interfere with their general wellbeing are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/ Counseling Services Groups and Workshops Outreach and Consultation Self-Help Library Wellness Coaching
- U Matter We Care, www.umatter.ufl.edu/
- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/
Student Complaints: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf
# Cover Sheet: Request 11079

## Change of Prerequisite for AEB3144

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<td><strong>Description</strong></td>
<td>Adding a prerequisite for AEB3144 Introduction to Agricultural Finance. Currently, no prerequisite is listed. We would like to change the prerequisite to include AEB3122 OR ACG2071 (i.e., both courses are acceptable prereqs for the course)</td>
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## Actions

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| **Comment** |  |
| **Updated** | 8/26/2016 |

No document changes

| **University Curriculum Committee** |  |
| **Comment** |  |
| **Updated** |  |

No document changes

| **Statewide Course Numbering System** |  |
| **Comment** |  |
| **Updated** |  |

No document changes

| **Office of the Registrar** |  |
| **Comment** |  |
| **Updated** |  |

No document changes

| **Student Academic Support System** |  |
| **Comment** |  |
| **Updated** |  |

No document changes

| **Catalog** |  |
| **Comment** |  |
| **Updated** |  |

No document changes

| **College Notified** |  |
| **Comment** |  |
| **Updated** |  |

No document changes
Course|Modify for request 11079

Info

Request: Change of Prerequisite for AEB3144
Request description: Adding a prerequisite for AEB3144 Introduction to Agricultural Finance. Currently, no prerequisite is listed. We would like to change the prerequisite to include AEB3122 OR ACG2071 (i.e., both courses are acceptable prereqs for the course)
Submitter: Sandberg, Harry Mikael sandberg@ufl.edu
Created: 8/25/2016 10:01:51 AM
Form version: 1

Responses
Current Prefix AEB
Course Level 3
Number 3
Lab Code None
Course Title Introduction to Agricultural Finance
Effective Term Earliest Available
Effective Year Earliest Available
Requested Action Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? No

Change Transcript Title? No

Change Credit Hours? No

Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Change Course Description? No
Change Prerequisites? Yes
Current Prerequisites None
Proposed Prerequisites AEB3122 Financial Planning for Agribusiness OR ACG2071 Introduction to Managerial Accounting
Change Co-requisites? No

Rationale: The course is currently taught with the assumption that students are familiar with the material covered in AEB3122 or AEB2071. Therefore, we believe the prerequisite should be changed to reflect the nature of the course.
## Cover Sheet: Request 10751

### ANS4218L Horse Psychology and Training

#### Info

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#### Actions

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<td>Brendemuhl, Joel H</td>
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Course|Modify for request 10751

Info

Request: ANS4218L Horse Psychology and Training
Request description: Horse behavior, instinct and senses as they relate to training.
Principles of training the young foal; ground work, liberty training and starting the young yearling under saddle; and principles of performance training.
Submitter: Imler, Amie M amie.taylor@ufl.edu
Created: 2/4/2016 5:00:46 PM
Form version: 1

Responses
Current Prefix: ANS
Course Level: 4
Number: 218
Lab Code: L
Course Title: Horse Psychology and Training
Effective Term: Fall
Effective Year: 2016
Requested Action: Other (selecting this option opens additional form fields below)
Change Course Prefix?: No

Change Course Level?: No
Change Course Number?: No

Change Lab Code?: Yes
Current Lab Code: L
Proposed Lab Code: C
Change Course Title?: No

Change Transcript Title?: No

Change Credit Hours?: Yes
Current Credit Hours: 3
Proposed Credit Hours: 2
Change Variable Credit?: No

Change S/U Only?: No
Change Contact Type?: No

Change Rotating Topic Designation?: No
Change Repeatable Credit?: No
Change Course Description?: No
Change Prerequisites? No

Change Co-requisites? No

Rationale: the course has been revised so it now includes a lecture for one period once per week, and a lab portion for 3 hours per week.
Horse Psychology and Training
ANS4218L

COURSE SYLLABUS

INSTRUCTOR
Mr. Joel McQuagge
125C Bldg 459
Telephone: 392-6363
mcquagge@animal.ufl.edu

OFFICE HOURS
My schedule varies week to week but I am typically in the office Mon. and Wed. from 8:00 – 11:00. You may also call for an appointment or see me before class at the HTU.

Department Chair
Dr. Geoff Dahl
100 Animal Sciences Building
392-1911

TEACHING ASSISTANTS
Ms. Amy Dinerman
863-528-6481
adinerman@ufl.edu
Ms. Shelby Smith
Ms. Chelsea Lopez
Ms. Melissa Tench

COURSE DESCRIPTION
ANS4218L allows students an in depth examination into the methods by which horses communicate, learn and are trained. Students will be assigned a yearling or two year old. Horses will be trained to lead, tie, longe, drive, trailer load and accept handling for routine management practices. These horses will also be started under saddle and bridle, receive first rides and be carried as far as time and expertise will allow.

COURSE OBJECTIVES
- Upon completion of this course students will have an understanding of logical progression in a training program.
- Students should have a stronger ability to understand a horse’s personality and develop a training program to fit that personality.
- This course should help students learn to adjust an individual session, when necessary, as it progresses.
- Students will learn visual communication and the importance of body language when dealing with horses.
- Students will learn techniques to develop mutual respect with a horse.
- Students will develop the basic skills necessary for starting a horse under saddle.

COURSE FORMAT
Support materials will be presented by instructors and discussed with students during Monday lecture/demonstrations. M, W, F, students will work hands-on with their horse. The class will gather as needed to problem solve with individual horse and riders. All types/styles of training are open for discussion.
This course is 3 credits.

SCHEDULE
Lecture- Monday 8th per. 3:00-3:50
Labs- Monday 9th per. 4:05-4:55
W, F, 8th & 9th per 3:00-4:55
Horse Teaching Unit

CLASS ATTENDANCE & EXPECTATIONS
This course requires a large time commitment in order to achieve goals with your horse. If you are unable to make this commitment, do not take this course. If you must miss a scheduled class, permission must be received in advance. Absence due to illness will require written verification from the University Health Center or your doctor.

PREREQUISITES
Students must be able to demonstrate substantial previous riding experience.

TEXT
Principles and Techniques of Horse Training and Management
(S. P. Webb, C.A.)
Evidence-Based Horsemanship
(S. Peters & M. Black)
Hand-outs will also be utilized

EQUIPMENT
All horses will be started in a Western saddle & bridle provided by the University. Once well started, you horse may be ridden with an English saddle.
The University will provide riding helmets or students may provide their personal helmets.
GRADING SYSTEM
Participation & Progress 60
Four 10 Pt. Quizzes 40
Report on article or video 10
Exercise Journals 20
Stalls 10
Total 140

Final grade averages will be computed as follows:

A = 90% and above  
B = 80-89%  
C = 70-79%  
D = 60-69%  
E = below 60%.

+'s will be assigned to the letter grades (B, C, D) at the discretion of the instructors.

2015 Important Dates

No Class  
Labor Day 9/7  
Homecoming 11/6  
Veteran's day 11/11  
Thanksgiving 11/24-27

Last Day of Class  
December 9

Services for Students with Disabilities
The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this

unauthorized aid in doing this assignment."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see:


Software Use: All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Academic Honesty
As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received
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<td>Facility Tour, course overview, pictures, Equine Communication and presentation of cues</td>
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<td>Haltering &amp; Tying, Training to the Walker Sensitizing, Desensitizing and Sacking Out</td>
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<td>Clippers Developing a Positive Learning Attitude Behavior Modification and Methods of Reinforcement</td>
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<td>Saddling green horses, Bridling a young horse</td>
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<td>Quiz Rein Aids, Yielding the face under saddle</td>
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## Cover Sheet: Request 10752

### ANS4241L Intermediate Horse Training

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<td>Description</td>
<td>Continue the training of a recently started under-saddled horse, exhibit horse to potential buyers and produce annual sealed bid sale.</td>
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#### Actions

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<td>This course (ANS 4241L) is the second semester of ANS 4218L as a companion course. The first course, (ANS 4218L) taught in the fall, has been changed to a 2 credit course with a lecture and 3 hours of lab while the spring course has been increased from 2 to 3 credits to reflect the addition of a one hour lecture period and 4 lab hours.</td>
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Course|Modify for request 10752

Info

Request: ANS4241L Intermediate Horse Training
Request description: Continue the training of a recently started under-saddled horse, exhibit horse to potential buyers and produce annual sealed bid sale.
Submitter: Imler, Amie M amie.taylor@ufl.edu
Created: 2/4/2016 5:03:16 PM
Form version: 1

Responses
Current Prefix: ANS
Course Level: 4
Number: 241
Lab Code: L
Course Title: Intermediate Horse Training
Effective Term: Spring
Effective Year: 2017
Requested Action: Other (selecting this option opens additional form fields below)
Change Course Prefix: No

Change Course Level: No

Change Course Number: No

Change Lab Code: Yes
Current Lab Code: L
Proposed Lab Code: C
Change Course Title: No

Change Transcript Title: No

Change Credit Hours: Yes
Current Credit Hours: 2
Proposed Credit Hours: 3
Change Variable Credit: No

Change S/U Only: No
Change Contact Type: No

Change Rotating Topic Designation: No
Change Repeatable Credit: No

Change Course Description: No
Change Prerequisites? No

Change Co-requisites? No

Rationale: This course now includes 1 hour of lecture per week, with 4 hours of lab per week.
Cover Sheet: Request 11089

FYC4622- Planning and Evaluating Family, Youth and Community Science Programs

**Info**

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Course|Modify for request 11089

Info

Request: FYC4622- Planning and Evaluating Family, Youth and Community Science Programs
Request description: Basic philosophy, theory and process of planning and evaluating family, youth and community programs
Submitter: Ivey, Kathryn Beaty kbeaty@ufl.edu
Created: 9/7/2016 10:33:08 AM
Form version: 1

Responses
Current Prefix FYC
Course Level: 4
Number: 622
Lab Code: None
Course Title: Planning and Evaluating Family, Youth and Community Science Programs
Effective Term: Earliest Available
Effective Year: Earliest Available
Requested Action: Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? No

Change Transcript Title? Yes
Current Transcript Title: EVAL FYC PROGRAMS
Proposed Transcript Title: (21 char. max) Prog Planning & Eval
Change Credit Hours? No

Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Change Course Description? No
Change Prerequisites? No

Change Co-requisites? No

Rationale: To better communicate in a concise manner using limited characters the full content of the course on a student's transcript.
# Cover Sheet: Request 11004

**MCB4320C Bacterial Genome Sequencing and Analysis - name change**

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Course|Modify for request 11004

Info

Request: MCB4320C Bacterial Genome Sequencing and Analysis - name change
Request description: Tools, analysis, and interpretation of the microbiome including a genomics class project.
Submitter: Oli, Monika moli@ufl.edu
Created: 5/19/2016 9:52:21 AM
Form version: 1

Responses
Current Prefix MCB
Course Level 4
Number 320
Lab Code C
Course Title Bacterial Genome Sequencing and Analysis
Effective Term Earliest Available
Effective Year Earliest Available
Requested Action Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? Yes
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Proposed Course Title The Microbiome
Change Transcript Title? Yes
Current Transcript Title BACT GENOME SEQ ANLYS
Proposed Transcript Title (21 char. max) The Microbiome
Change Credit Hours? No

Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Change Course Description? Yes
Current Course Description: Genomics research and scientific communication while sequencing a whole bacterial genome as a class project.

Proposed Course Description (50 words max): Tools, analysis, and interpretation of the microbiome including a genomics class project.

Change Prerequisites: No

Change Co-requisites: No

Rationale: The change in course title, description and topics reflects the changes in the field and will provide current and state-of-the-art instruction for our students.
The Microbiome
MCB 4320C/6xxx
3 credit hours

Prerequisite: MCB 3020 or MCB 3023 with minimum grades of C.

Catalog Description: Tools, analysis, and interpretation of the microbiome including a genomics class project.

Brief Description: This course has only biology and microbiology at the college level as a prerequisite and is intended for majors in the Life Sciences. It will be taught at the senior level and its primary objective is to increase genomics knowledge and appreciation. Environmental microbiologists began the study of uncultured microbial life in the early 1990s. The idea was to begin to understand the breadth of microbial diversity across a wide variety of habitats using methods that do not require culturing of the organisms.

During this period, the explosion in technology and data analysis also began in genomics. Environmental microbiologists took full advantage of these new tools and were able to find diverse life in many places. By about 2005, those outside of microbiology began to take notice of these new tools and became interested in discovering microbes associated with their environments of interest. That included biomedical scientists, ecologists, agriculturalists, taxonomists, entomologists, and others. This has led to a sea of papers in the field including and explosion of papers on the collection of microbes in association with eukaryotes.

What is the microbiome? The collection of microorganisms that inhabit a specific environment is referred to as the microbiome. Microbiomes exist on and within plants, animals, insects, amphibians, birds, etc. They also exist in niches to themselves in a wide variety of terrestrial, marine, and aquatic environments. Many of these environments are extreme including hot springs, deep ocean thermal vents, and subsurface rock formations.

Given the many environments in which microbiomes thrive, no single course or group of courses can hope to cover them adequately. But this course intends to teach students many of the modern tools available to analyze the microbiome and its role in a given environment. As a result, this course will provide students with experience using many of the molecular tools used in microbiome analysis including 16S rRNA sequencing, whole genome sequencing, epigenomics, transcriptomics, small RNA analysis, proteomics, and metabolomics. Some lessons learned on experimental design will also be included.

The course will be entirely web-based, and all lectures will be delivered online. The reading assignments, course lecture materials and online activities will be posted each week. There will be a quiz every two weeks and four exams.

Instructors:

Prof. Eric W. Triplett
Graduate students from the Triplett lab will give lectures on the technologies they are using that apply to the microbiome.

The best ways to contact us is via E-learning mail or we can set up a time for individual phone calls or Skype sessions.

Course Objectives:
1. This course will introduce students to the modern technologies used in microbiome research.
2. This course will introduce students to the analysis of omics datasets.
3. This course will demonstrate how a genome sequence can be mined from a collection of genomes in a sample.
4. This course will introduce how genomics is used to understand the human microbiome and its role in human health.
5. This course will show the value of understanding microbial communities in the environment.
6. This course will introduce students to epigenomics, transcriptomics, and proteomics and how they are used to address questions of interest.
7. This course will allow students to participate in an on-going microbiome experiment and work in groups to write a manuscript on their results including the analysis and interpretation of the data.

e-Learning system: The course will be managed entirely through the e-Learning in the Canvas system (one of two big orange button at https://elearning.ufl.edu/). If you are not familiar with this system, you need to become acquainted with it for this course. The LSS homepage contains tips and tutorials for students as well as computer requirements. It is your responsibility to become familiar with e-Learning in Canvas and to ensure that you have the appropriate browsers, settings, internet speed, etc. For any technical questions regarding Canvas, please visit the e-Learning site (https://elearning.ufl.edu/help/Student_Faq) and/or the UF Help desk (http://helpdesk.ufl.edu/). They can address technical issues such as not being able to view course materials, not being able to access the quizzes, not being able to send mail, etc. All technical issues/questions/comments should go to the Help Desk first (352-392-HELP). They are the experts. The Help Desk suggests that if you encounter any problem (error messages, etc.) that you take a screen shot of the problem and save it. This will help the Help Desk in fixing your problem.

If you encounter a problem that the HELP DESK cannot fix, please send a help request to the Technical Support Center of the Microbiology & Cell Science Department. Please fill
out your request at http://microcell.ufl.edu/support/index.php. The form will ask for your name, number, email and location. In the location field, please indicate “online course.”

Office Hours: Since this is a web-based course, office hours will be online. The office hours will be conducted via the Meetings function in e-Learning in Canvas or via Skype. Office hours are difficult to schedule since our students have such varied schedules. We will always be available to answer questions by email or to set up an individual phone or Skype conversation. Just contact us to arrange.

Email and Announcements: All email communication regarding this course will be done through the mail function of E-learning in Canvas. This mail system is private and secure. It is your responsibility to check your E-learning Mail and Announcements frequently to stay updated on the course. Please check the course a minimum of two times per week to be certain that you are not missing any important communications. As the instructors, we will respond to your questions and emails promptly. By maintaining all email communication through Canvas instead of other email domains, it reduces the chance that discussions will get lost among outside accounts. When sending an email through e-Learning in Canvas, you have the option to also forward the email to the recipient’s ufl account. Please use this option if you have an urgent message. If you receive a course email (from Canvas) to your ufl account, please note that you cannot simply hit “reply” to the email. You must login to Canvas to respond through the mail function.

Topical outline of weekly modules:

<table>
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<tr>
<th>Wk</th>
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| 1  | Jan 4 - 13  | Introduction to Course  
History of the study of the microbiome                                           |
<p>| 2  | Jan 17 - 20 | Describing the organisms present in the microbiome: 16S rRNA sequencing         |
| 3  | Jan 23 - Jan 27 | Analysis and interpretation of 16S rRNA sequencing                            |
| 4  | Jan 30 - Feb 3 | Extracting whole genomes from the microbiome - bacterial genome sequencing through PacBio |
| 5  | Feb 6 - 10  | Culturing organisms of interest from the microbiome                             |
|    |             | Exam 1, February 8, available 5-10 PM                                           |
| 6  | Feb 13 - 17 | Environmental influences on bacterial genomes: bacterial epigenome and its analysis |
| 7  | Feb 20 - 24 | Learning the metabolic potential of the microbiome: metagenomics                |
|    |             | Exam 2, February 22, available 5-10 PM                                           |
| 8  | Feb 27 - Mar 3 | Gene expression in the microbiome - transcriptomics                           |</p>
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<td>RNA influencing gene expression: sRNA sequencing</td>
</tr>
<tr>
<td>10 Mar 20 - 24</td>
<td>Functions available in the microbiome - metaproteomics</td>
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<tr>
<td>11 Mar 27 - Mar 31</td>
<td>Microbiome experiment - description and analysis</td>
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<td>Exam 3, March 29, available 5-10 PM</td>
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<tr>
<td>12 Apr 3 - 7</td>
<td>Microbiome experiment - data analysis and interpretation</td>
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<tr>
<td>13 Apr 10 - 14</td>
<td>Microbiome experiment - writing the paper</td>
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<tr>
<td>14 Apr 17 - 19</td>
<td>Microbiome experiment - writing the paper</td>
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<tr>
<td>15 April 27</td>
<td>Exam 4, available 5-10 PM</td>
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**Content for the 6xxx-level course:**
Graduate students will be asked to read and review recently-published papers from the current microbiome literature. On each exam, they will be asked to submit a summary of each paper read. There will be one reading assignment each week. Recent papers will be chosen from Elizabeth Bik's Microbiome Digest (https://microbiomedigest.com). This site provides daily updates on virtually all of the microbiome papers published.

**Grading Scale:**

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<td>B+</td>
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<td>74-76</td>
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<td>70-73</td>
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For more information on grade points and UF grading policies, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

**Assessments**

**Exams:** Four proctored exams will be administered during the semester. Each exam is worth 22.5% of your grade. Specific details regarding the exams and proctoring will be given closer to the exam dates.
Tentative exam date/times:
Exam 1                   Wednesday, February 8   5-10 PM
Exam 2                   Wednesday, February 22  5-10 PM
Exam 3                   Friday, March 29        5-10 PM
Exam 4                   Thursday, April 27      5-10 PM

Quizzes: Brief quizzes will be given that cover every two weeks of material. These short quizzes will be open for one week and need to be completed by Friday evening BY 9 PM of every other week. Following the lectures and taking these quizzes ensures timely participation and progress in the course. These quizzes are a learning tool so you may take each quiz up to three times each and only your last score of each week’s quiz attempt will be recorded. Your quiz average will count for 10% of your final grade. There will be a total of 7 quizzes (one for every two weeks of course material). You can drop your 2 lowest quiz scores. Your dropped quiz grades will include any quizzes you miss for any reason. This includes minor illness, travel, meetings, and technical problems etc. Rarely, technical issues may occur while you are taking the timed quiz, and any quizzes affected by technical problems will count against your drops. A quiz will not be re-opened or reset if it is interrupted by technical difficulties. (NOTE: A slow Internet connection may affect timed quizzes, but it is your responsibility to use a connection at the speed suggested in the e-Learning homepage.)

Plan to take each quiz and save up your dropped quizzes for unexpected events like illness or technical problems. Only quizzes that have been submitted by students can be accessed for studying for exams. Therefore, even if you choose to use a week as a drop and do not study, try to take the quiz anyway by the deadline so you can still access the quiz questions at later date. If you do not take a quiz during the open quiz window, then you are shut out of the quiz, and it cannot be reopened for you.

Following the close of each quiz and exam window, you have 10 calendar days to contest your quiz/exam grade in an email to me (i.e., a student cannot request a grade correction on quiz 2 during the last week of the course). Please note that you can ask a question about or discuss any quiz/exam question at any time during the semester for the purposes of understanding and education.

Assessment Breakdown
Exam 1                          22.5%
Exam 2                          22.5%
Exam 3                          22.5%
Exam 4                          22.5%
Quizzes (average of 5 highest scores)  10%
Total                          100%

Make up and attendance policy: Please contact me directly regarding any serious illnesses, family emergencies, or prolonged absences that result in missed work. Any absences will require written verification. In most situations, quizzes missed due to minor
illness will count among the 2 dropped quiz grades. As a student, it is your choice to take all quizzes and exams. If you choose to not take a quiz or exam because of another activity (work, social engagement, etc), then you will get a zero for the grade. If an exam in this course conflicts with an exam time for another course, please contact me as early in the semester as possible to coordinate an alternate exam time.

Excused absences are consistent with university policies in the undergraduate catalog (https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx) and require appropriate documentation.

Textbook: There is no required or recommended textbook.

Course structure: The course is structured as 14 Lessons – one each week of the semester. Each week will cover a different topic. The topics build on each other so in order to understand a topic in week 6, for example, it is necessary that you understand the material from week 1. The first 4 weeks of the course lay the foundation for the remaining weeks.

Each week begins on Monday morning, which is the day by which a new week’s worth of material will be posted. Every effort on my part will be made to post material prior to Mondays, but that may not always happen. Start by navigating to the Lessons page. Then, click on the appropriate week. For each week’s lesson, there will be several items to complete. Click on the link for each item. The first item will be the learning objectives for the week. Keep the learning objectives in mind as you learn the week’s material. If you meet the learning objectives, you should do very well on the quiz and the exams. After reading the learning objectives, please go through the week’s material in the order presented. The next item in the list will usually be the reading assignment (a handout) followed by the lectures, and links to any online tutorials or modules. After you go through the material in the order presented, you are always free to return and visit any of the content. The introductory lecture will give an example of the types of course content and how it will be presented. The pdf of the lecture slides will also be posted each week for your convenience. This convenience is for students who wish to print out the slides and follow along with the lecture, study the notes later, etc. The lectures slides will only be available in pdf format.

Each quiz will be based on the content of two weeks of material. The quiz window will be open for one week at the end of those two weeks and will close at 9 PM Friday night every other week. If you only attempt a quiz once before 9 PM on Friday, that score is the one that will count for that week’s quiz grade.

Academic Honesty: As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”
It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.doufl.edu/SCCR/honorcodes/honorcode.php.

Additional comments regarding academic integrity:
Students are encouraged to discuss material with each other from the course, help each other understand concepts, study together, and even discuss assessment questions with each other once the quiz window is closed. However, the following is considered academic dishonesty, and I expect that no student will ever do any of the following:

- Have another person complete a quiz in this course
- Copy another student’s quiz in this course
- Collaborate with anyone during a quiz in this course
- Discuss the questions and answers of a quiz with other students while the quiz window is still open
- Manipulate and/or distribute any materials provided in this course for any purpose (including course lecture slides).
- Use any materials provided by a previous student in the course

Software Use: All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources: Students experiencing crisis or personal problems that interfere with their general well being are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
• Counseling Services
• Groups and Workshops
• Outreach and Consultation
• Self-Help Library
• Training Programs
• Community Provider Database

• U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.

• Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Students Requiring Accommodations: Students requesting class accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Statement on Distance Education Courses: Should you have any complaints with your experience in this course, please visit http://www.distance.ufl.edu/student-complaints.

Course Evaluation: Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.
# Cover Sheet: Request 11028

**WIS4941 Practical Work Experience in Wildlife Ecology and Conservation**

## Info

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Course|Modify for request 11028

Info

Request: WIS4941 Practical Work Experience in Wildlife Ecology and Conservation
Request description: Practical teaching, research, and extension experience in the field of wildlife ecology and conservation. Can be repeated up to 12 credits. Offered every semester. Instructor permission required.
Submitter: Giuliano, William M docg@ufl.edu
Created: 7/10/2016 12:30:55 PM
Form version: 1

Responses
Current Prefix WIS
Course Level 4
Number 941
Lab Code None
Course Title Practical Work Experience in Wildlife Ecology and Conservation
Effective Term Spring
Effective Year 2017
Requested Action Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? Yes
Current Course Title Practical Work Experience in Wildlife Ecology and Conservation
Proposed Course Title Internship in Wildlife Ecology and Conservation
Change Transcript Title? Yes
Current Transcript Title PRACTICAL WORK EXPER
Proposed Transcript Title (21 char. max) Internship WEC
Change Credit Hours? No

Change Variable Credit? Yes
Current Min and Max Credits 1, 4
Proposed Min and Max Credits 1, 12
Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Change Course Description? Yes
Current Course Description
Practical work experience in the field of wildlife ecology and conservation.

Proposed Course Description (50 words max)
Practical teaching, research, and extension experience in the field of wildlife ecology and conservation. Can be repeated up to 12 credits. Offered every semester. Instructor permission required.

Change Prerequisites? No

Change Co-requisites? No

Rationale
The changes include 1) changing the title "Practical work experience..." to "Internship..." to better describe the course, as the experiences are typically part of internships not regular jobs/work; 2) provide a more detailed Course Description to better inform students, who have often been confused by the original description; and 3) increase the allowable credits that students can receive in the course to meet the needs of our students pursuing semester-long, off campus learning experiences (i.e., remain full time students). Although not required, the Wildlife Ecology and Conservation Program emphasizes and strongly encourages students to gain practical experience while pursuing their degree, and, with approval, can receive credit for such experience that counts towards their degree, including semester-long, off-campus, "full-time" experience with agencies, NGOs, etc.
All UCC1 forms and each UCC2 form that proposes a change in the course description or credit hours must include this checklist in addition to a complete syllabus. Check the box if the attached syllabus includes the indicated information.

**Syllabus MUST contain the following information:**
- **☑** Instructor contact information (and TA if applicable)
- **☑** Course objectives and/or goals
- **☑** A weekly course schedule of topics and assignments
- **☑** Required and recommended textbooks
- **☑** Methods by which students will be evaluated and their grades determined
- **☑** A statement related to class attendance, make-up exams and other work such as: "Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx."
- **☑** A statement related to accommodations for students with disabilities such as: "Students requesting classroom accommodation must first register with the Dean of Student Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation."
- **☑** Information on current UF grading policies for assigning grade points. This may be achieved by including a link to the appropriate undergraduate catalog web page: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx
- **☑** A statement informing students of the online course evaluation process such as: "Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu.

**It is recommended that syllabi contain the following information:**
1. Critical dates for exams and other work
2. Class demeanor expected by the professor (e.g., tardiness, cell phone usage)
3. UF's honesty policy regarding cheating, plagiarism, etc. Suggested wording: UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (http://www.dso.ufl.edu/scrr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor of TAs in this class.
4. Phone number and contact site for university counseling services and mental health services: 392-1575, http://www.counseling.ufl.edu/cwc/Default.aspx
   University Police Department: 392-1111 or 9-1-1 for emergencies.

**The University's complete Syllabus Policy can be found at:** http://www.aas.ufl.edu/Data/Sites/18/media/policies/syllabi_policy.pdf
Internship in Wildlife Ecology and Conservation  
WIS 4941 (1-12 Credits; can be repeated up to 12 credits)  
Spring 2017

Meeting Dates & Times: Arranged.

Instructor: Bill Giuliano  
Office: 308 Newins-Ziegler Hall  
Office Hours: Tuesday & Thursday, 9:00-10:30 a.m. and by appointment  
Phone: 352-846-0575  
Email: docg@ufl.edu

Preferred Methods of Communication & Conflict Resolution: The preferred method of resolving questions, concerns, and issues regarding course content and expectations is to ask questions of the Instructor in class or during office hours. Alternatively, contact the Instructor via their UFL Email (see above). To resolve technical issues contact the UF Computing Help Desk at 352-392-4357 or http://helpdesk.ufl.edu.

Catalog Description: Practical teaching, research, and extension experience in the field of wildlife ecology and conservation. Can be repeated up to 12 credits. Offered every semester. Instructor permission required.

Course Learning Objectives: Learning objectives will vary with the particular experience. However, one or more of the following outcomes are expected. Students will:
- Gain knowledge, and be able to recognize and describe wildlife ecology and conservation principles and practices.
- Comprehend, and explain and discuss wildlife ecology and conservation principles and practices.
- Apply, and be able to demonstrate and develop wildlife ecology and conservation principles and practices.
- Analyze, and be able to characterize and research wildlife ecology and conservation principles and practices.
- Synthesize, and be able to assemble, integrate, and communicate wildlife ecology and conservation principles and practices.
- Evaluate, and be able to compare and contrast, interpret, and recommend wildlife ecology and conservation principles and practices.

Prerequisite Courses: None.

Required & Recommended Textbooks: None.

Method of Evaluation & Grading: Variable based on the internship experience; based on the quality and quantity or work performed.

Grades: 
A (≥900 pts; ≥90.0%), B (800-899 pts; 80.0%-89.9%), C (700-799 pts; 70.0%-79.9%), D (600-699 pts; 60.0%-69.9%), & E (≤599 pts; ≤59.9%)

Grading Policy: If the student believes there is a grading error, they should contact and discuss it with the immediately Requirements for class attendance and make-up assignments will vary with the internship experience, and are consistent with university policies that can be found at https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx. For information on current UF policies for assigning grade points, see https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx.

Weekly Course Schedule and Critical Dates: Variable based on the internship experience.

Academic Honesty: As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your
individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code.

**Software Use:** All faculty, staff, and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

**Campus Resources:** Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university’s counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

**Health and Wellness**
- **U Matter, We Care:** If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.
- Sexual Assault Recovery Services (SARS): Student Health Care Center, 392-1161.

**Academic Resources**
- E-learning technical support: 352-392-4357 (select option 2) or e-mail to Learningsupport@ufl.edu [https://elearning.ufl.edu/help.shtml](https://elearning.ufl.edu/help.shtml).
- Library Support: [http://cms.uflib.ufl.edu/ask](http://cms.uflib.ufl.edu/ask). Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center: Broward Hall, 352-392-2010 or 392-6420. General study skills and tutoring. [http://teachingcenter.ufl.edu/](http://teachingcenter.ufl.edu/).

**Services for Students with Disabilities:** The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation: 0001 Reid Hall, 352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/).

**Sexual Harassment:** It is the policy of The University of Florida to provide an educational and working environment for its students, faculty, and staff that is free from sex discrimination and sexual harassment. In accordance with federal and state law, the University prohibits discrimination on the basis of sex, including sexual harassment. Sex discrimination and sexual harassment will not be tolerated, and individuals who engage in such conduct will be subject to disciplinary action. The University encourages students, faculty, staff, and visitors to promptly report sex discrimination and sexual harassment. Any employee, co-worker, or student who has knowledge of sexual harassment is strongly encouraged to report it promptly: [http://hr.ufl.edu/manager-resources/recruitment-staffing/institutional-equity-diversity/sexual-harassment/](http://hr.ufl.edu/manager-resources/recruitment-staffing/institutional-equity-diversity/sexual-harassment/).

**Course Evaluation & Student Complaint Process:** Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at [https://evaluations.ufl.edu](https://evaluations.ufl.edu). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [https://evaluations.ufl.edu/results/](https://evaluations.ufl.edu/results/). To file a complaint about this course, see: