

Cover Sheet: Request 11186

ENY2XXX Practical Beekeeping

Info

Process	Course New Ugrad/Pro
Status	Pending
Submitter	Ellis, James jdellis@ufl.edu
Created	10/18/2016 4:56:58 PM
Updated	1/12/2017 2:11:42 PM
Description of request	The overall course goal is that students be able to establish colonies of European-derived honey bees and manage them to be healthy and productive. To achieve this goal, this class is organized as a combined, hybrid course with online lectures and in-person field experiences.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Entomology and Nematology 514914000	Mcauslane, Heather J		10/19/2016
Deleted Practical Beekeeping Syllabus.docx					10/18/2016
Deleted Practical Beekeeping Syllabus.docx					10/18/2016
Deleted Practical Beekeeping Syllabus.docx					10/19/2016
College	Approved	CALS - College of Agricultural and Life Sciences	Brendemuhl, Joel H	Edits required by the CALS CC have been made.	12/1/2016
Replaced Practical Beekeeping Syllabus.docx					12/1/2016
Deleted Practical Beekeeping Syllabus - 12-01-16.docx					12/1/2016
University Curriculum Committee	Comment	PV - University Curriculum Committee (UCC)	Case, Brandon	Added to the January agenda.	12/16/2016
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			12/16/2016
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					

Step	Status	Group	User	Comment	Updated
College Notified					
No document changes					

Course|New for request 11186

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Submitter: Ellis, James jdellis@ufl.edu

Created: 1/12/2017 2:08:26 PM

Form version: 7

Responses

Recommended PrefixENY

Course Level 2

Number XXX

Category of Instruction Introductory

Lab Code C

Course Title Practical Beekeeping

Transcript Title Practical Beekeeping

Degree Type Baccalaureate

Delivery Method(s) On-Campus

Online

Co-Listing No

Effective Term Summer

Effective Year 2017

Rotating Topic? No

Repeatable Credit? No

Amount of Credit 3

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 6

Course Description The overall course goal is that students be able to establish colonies of European-derived honey bees and manage them to be healthy and productive. To achieve this goal, this class is organized as a combined, hybrid course with online lectures and in-person field experiences.

Prerequisites none

Co-requisites none

Rationale and Placement in Curriculum Practical learning experiences have been shown to influence student perceptions of science positively and increase student retention in STEM majors. We intend for this course to offer hands-on experiences in honey bee biology and management to facilitate STEM learning for entry-level collegiate students. The Entomology and Nematology Department currently offers one, online-only lecture course in advanced honey bee biology and husbandry and there is a high demand for a hands-on course focused on basic beekeeping, which the proposed course uniquely satisfies.

Course Objectives Students should be able to:

1. Understand and use beekeeping-related jargon,
2. Identify common beekeeping tools and equipment,
3. Identify the members of a honey bee colony and describe the primary role each

member plays within a colony,

4. Recognize relevant biological properties of honey bees and their colonies in order to utilize this knowledge to manage colonies properly,
5. Evaluate the health and strength of honey bee colonies accurately,
6. Employ colony management techniques to prevent swarming and maximize honey production,
7. Combine preventative methods and treatments to control common honey bee pests and diseases, and
8. Manage honey bee colonies to produce honey, wax, and value added hive products.

Course Textbook(s) and/or Other Assigned Reading Delaplaine KS (2007). Honey Bees and Beekeeping: A Year in the Life of an Apiary, 3rd Edition. ISBN: 978-1929832316

Weekly Schedule of Topics	Date	Topic	Assignments*
	6/27/17	Introduction and Preparing the Apiary	Quiz 1
	6/29/17	Hive Demo and Installing Packages	Quiz 2
	7/4/17	Holiday (no class)	
	7/6/17	Clipping and Marking Queens and Hive Inspections	Quiz 3
	7/11/17	Making Splits and Swarm Control	Quiz 4
	7/13/17	Field Trip	Quiz 5 - Field Journal 1 (due midnight 7/16/17)
	7/18/17	Pests, Diseases and Hive Inspections	Quiz 6
	7/20/17	Pests and Diseases Continued	Quiz 7
	7/25/17	Honey Collection and Hive Inspections	Quiz 8
	7/27/17	Honey Extraction	Quiz 9
	8/1/17	Value Added Hive Products and Hive Inspections	Quiz 10
	8/3/17	Practical Exam	Field Journal 2 (due midnight 8/3/17)

*All online quizzes are due 30 minutes before class starts on the respective quiz dates.

Links and Policies*For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

MAKE-UP ASSIGNMENTS/EXAMS:

Make-up assignments and exams are not available without verification of a university excused absence. In the event of a university excused absence, it is the responsibility of the student to contact the instructor(s) in a timely manner and provide any required documentation to support their absence. 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>

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>.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT:

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>.

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Students who plagiarize will be caught and consequences will be applied. I check all written assignments using an anti-plagiarism software called Turnitin® (http://turnitin.com/en_us/products/originalitycheck). Students who plagiarize will receive a grade of zero on the assignment. The second instance of plagiarism in the course will result in an automatic failing grade in the course.

Please understand that our purpose in bringing to your attention the matter of plagiarism is to help train you to be ethical scientists, not to impugn your character.

SOFTWARE USE:

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accommodation (0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/)

E-LEARNING AND TECHNICAL SUPPORT:

For issues with technical difficulties for Canvas, please contact the UF Help Desk at:

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- (352) 392-HELP
- <https://lss.at.ufl.edu/help.shtml>

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

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

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

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Grading Scheme Assignments:

Attendance/Participation (100 pts, 25%)

Lecture Quizzes (100 pts, 25%)

Field Journal Entries (100 pts, 25%)

Practical Exam (100 pts, 25%)

ATTENDANCE/PARTICIPATION:

Attendance and participation are mandatory for this course. Cumulatively, attendance and participation in classes 1-10 will be worth 10 points each day (for a total of 100 points). Students are expected to arrive to class on time and tardiness will result in a reduction of 5 attendance points for that day. This course is designed to provide students with hands on experiences in beekeeping. Therefore, students are expected to participate and be engaged in all hands on activities for the duration of the class period; failure to do

so will result in a reduction of participation points for that day up to 5 points. No make-up opportunities are available for attendance/participation without a university excused absence. No family, friends, spouses, etc. are allowed to attend any of the classes.

LECTURE QUIZES:

There is a quiz associated with each of the online lectures (classes 1-10). Each quiz is worth 10 points and will include 5-10 questions. Students are required to watch the lecture and complete the quiz prior to the beginning of each class. Students will be allowed three submission attempts for each quiz. Quizzes are due 30 minutes before the start of each class. No late quiz submissions will be accepted without a university excused absence.

FIELD JOURNALS:

Students are required to maintain a typed field journal of their experiences during class. Each class period (classes 1-10) must have a corresponding journal entry that consists of a concise description of what was learned/experienced during that class. Each journal entry must be between 200 and 500 words. Proper terminology, spelling, and grammar are expected in all journal entries. Journal entries will be submitted twice during the semester: the entries for classes 1-5 will be submitted in "Field Journal 1" and classes 6-10 will be submitted in "Field Journal 2." Both field journals must be submitted as Microsoft Word documents (not PDFs) to their corresponding assignments on Canvas. Each journal entry is worth 10 points and will cumulatively add to a total of 50 possible points for 'Field Journal 1' and 50 points for 'Field Journal 2.' Field journals will be checked for plagiarism using Turnitin® (<https://lss.at.ufl.edu/help/Turnitin>) anti-plagiarism software. For further information and examples of plagiarism, I strongly suggest that you please read the George Smathers' Library Guide to Plagiarism: <http://www.uflib.ufl.edu/msl/07b/students.html>. A rubric for grading the field journal entries is provided at the end of the syllabus. No make-up opportunities are available for field journals entries without a university excused absence.

PRACTICAL EXAM:

The practical exam will occur during the last class period. The practical exam is a three-part exam. One section of the practical will be an assessment of a students' ability to work a bee hive and identify key components of a living honey bee colony. A second section of the practical exam will test students' ability to identify honey bee pests, beekeeping equipment, and beekeeping tools. Finally, a third section will assess student's ability to integrate a series of symptoms/conditions to identify common colony states (e.g. queenless, swarming, healthy, etc.). Make up opportunities are not available for the practical exam without a university excused absence.

Letter Grading Scale:

%, letter grade, and number points needed

100-93	A	= 371.5
90-92	A-	359.5 - 371.4
87-89	B+	347.5 - 359.4
83-86	B	331.5 - 347.4
80-82	B-	319.5 - 331.4
77-79	C+	307.5 - 319.4
73-76	C	291.5 - 307.4
70-72	C-	279.5 - 291.4
67-69	D+	267.5 - 279.4
63-66	D	251.5 - 267.4
60-62	D-	239.5 - 251.4
0-59		

E 0 – 239.4

Instructor(s) Dr. Jamie Ellis (jdellis@ufl.edu)
Cameron Jack (cjack@ufl.edu)
Ashley Mortensen (mortensena@ufl.edu)



ENY 2XXX

PRACTICAL BEEKEEPING



Summer B 2017

Course Overview

Section , Periods 2 & 3 (9:30-12:15), T & R
Bee Biology Unit, Building 0940,
2895 SW 23rd Terrace, Gainesville, FL, 32611
<http://campusmap.ufl.edu/#/index/0940>

COURSE DESCRIPTION AND LEARNING OBJECTIVES:

The overall course goal is that students be able to establish colonies of European-derived honey bees and manage them to be healthy and productive. To achieve this goal, this class is organized as a combined, hybrid course with online lectures and in-person field experiences.

Learning objectives

Students should be able to:

1. Understand and use beekeeping-related jargon,
2. Identify common beekeeping tools and equipment,
3. Identify the members of a honey bee colony and describe the primary role each member plays within a colony,
4. Recognize relevant biological properties of honey bees and their colonies in order to utilize this knowledge to manage colonies properly,
5. Evaluate the health and strength of honey bee colonies accurately,
6. Employ colony management techniques to prevent swarming and maximize honey production,
7. Combine preventative methods and treatments to control common honey bee pests and diseases, and
8. Manage honey bee colonies to produce honey, wax, and value added hive products.

Students' successful achievement of these learning objectives will be evaluated via online lecture quizzes, field journal entries, and a practical assessment.

INSTRUCTORS:

Dr. Jamie Ellis (jdellis@ufl.edu), 3207 Entomology-Nematology (EYN), (352) 273-3924

Cameron Jack (cjack@ufl.edu), 2309 Entomology-Nematology (EYN)

Ashley Mortensen (mortensena@ufl.edu), 2309 Entomology-Nematology (EYN)

COURSE COMMUNICATION: All course communications (assignments, announcements, test information, etc.) will be made via the Announcements and Email functions of Canvas. Please ensure that your Canvas profile is set to receive notifications (i.e. please check the appropriate box to receive all notifications). To do this, click on your name in the upper right corner of the Canvas homepage after logging into Canvas. Next, click "notifications" on the left. This will take you to the Notification Preferences page. Then, click the check symbol for at least the following notifications: Due Date, Course Content, Announcement, and Grading.

OFFICE HOURS: Office hours are available only by email appointment.

COURSE PREREQUISITES: None

RECOMMENDED TEXT (NOT REQUIRED): Delaplane KS (2007). *Honey Bees and Beekeeping: A Year in the Life of an Apiary, 3rd Edition*. ISBN: 978-1929832316

COURSE POLICIES:

APPROPRIATE ATTIRE:

Throughout the course, students will interact with European honey bees regularly. Protective equipment, such as beekeeping suits, veils and gloves will be provided. Students are required to wear closed toed shoes. Shoes that cover the ankles (such as hiking boots) provide the most protection from stings around the ankle area. We also recommend that students wear pants (rather than shorts, dresses, skirts, etc.) to class.

HONEY BEE STINGS:

Stings are likely to occur when working in/around honey bee colonies. Working directly with live honey bee colonies is a significant component of the course. Students with severe (anaphylactic) allergies to honey bee stings should not take this course. If you have never been stung and are unsure of your allergy status, we recommend that you visit an allergist to obtain precautionary allergy response training/treatment (e.g. an EpiPen). All students are required to read the provided document on honey bee stings prior to attending the first day of class. Questions related to this assignment will be included in the first quiz.

INSTRUCTIONAL METHODS:

Lecture videos will be available through Canvas in an effort to maximize class time for hands on experiences. Students will be expected to watch the recorded lecture prior to each class. Lecture videos are no more than 20 minutes in length and can be viewed on most devices that have access to the internet. Supplemental material will be made available throughout the course via Canvas to enhance student comprehension of the topics covered. Concepts covered in the online lectures will be reinforced during in-person classes.

GRADING:

Assignment	Points	% of grade
Attendance/Participation	100	25
Lecture Quizzes	100	25
Field Journal Entries	100	25
Practical Exam	100	25

ATTENDANCE/PARTICIPATION:

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GRADING SCALE:

FINAL GRADING		
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COURSE SCHEDULE:

Class #	Date	Topic	Assignments*
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	7/4/17	Holiday (no class)	
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			Field Journal 1 (due midnight 7/16/17)
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11	8/3/17	Practical Exam	Field Journal 2 (due midnight 8/3/17)
*All online quizzes are due 30 minutes before class starts on the respective quiz dates.			

SCHEDULE DISCALIMER: This schedule represents current plans and objectives. These plans may need to change throughout the semester due to unforeseeable circumstances (i.e. inclement weather). Such changes will be communicated though announcements on Canvas.

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- <https://lss.at.ufl.edu/help.shtml>

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

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

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Field Journal Grading Rubric (Classes 1-5)

Points Available			Points Awarded (up to 10 pts/entry)										
2 points	1 point	0 points	Class 1	Class 2	Class 3	Class 4	Class 5						
Accurately summarizes the day's activities	-	Does not accurately summarize the day's activities	_____	_____	_____	_____	_____						
Uses correct terminology/jargon throughout	Occasionally misuses or does not use appropriate terminology/jargon	Consistently misuses or never uses appropriate terminology/jargon	_____	_____	_____	_____	_____						
Explains the relevance of the day's activities to being able to manage honey bee colonies successfully	Mentions but does not elaborate on the relevance of the day's activities to successful honey bee management	Does not mention or explain the relevance of the day's activities to successful honey bee management	_____	_____	_____	_____	_____						
Is written in complete sentences and uses proper grammar	Occasionally uses improper grammar	Is not written in complete sentences and does not use proper grammar	_____	_____	_____	_____	_____						
Entry is between 200-500 words	-	Entry is not between 200-500 words	_____	_____	_____	_____	_____						
Total:			_____	+	_____	+	_____	+	_____	+	_____	=	Overall (50 pts)

Field Journal Grading Rubric (Classes 6-10)

Points Available			Points Awarded (up to 10 pts/entry)										
2 points	1 point	0 points	Class 6	Class 7	Class 8	Class 9	Class 10						
Accurately summarizes the day's activities	-	Does not accurately summarize the day's activities	_____	_____	_____	_____	_____						
Uses correct terminology/jargon throughout	Occasionally misuses or does not use appropriate terminology/jargon	Consistently misuses or never uses appropriate terminology/jargon	_____	_____	_____	_____	_____						
Explains the relevance of the day's activities to being able to manage honey bee colonies successfully	Mentions but does not elaborate on the relevance of the day's activities to successful honey bee management	Does not mention or explain the relevance of the day's activities to successful honey bee management	_____	_____	_____	_____	_____						
Is written in complete sentences and uses proper grammar	Occasionally uses improper grammar	Is not written in complete sentences and does not use proper grammar	_____	_____	_____	_____	_____						
Entry is between 200-500 words	-	Entry is not between 200-500 words	_____	_____	_____	_____	_____						
Total:			_____	+	_____	+	_____	+	_____	+	_____	=	Overall (50 pts)