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FLORIDA ATLANTIC UNIVERSITY

NEW COURSE PROPOSAL Graduate Programs

Department Biological Sciences

College College of Science

(To obtain a course number, contact erudolph@fau.edu)

UGPC Approval	
UFS Approval	
SCNS Submittal	
Confirmed	
Banner Posted	
Catalog	

Prefix ZOO	(L = Lab Course; C = Combined Lecture/Lab;	Type of Course Title	e	
Number 6516	add if appropriate) Lab	Lecture Principles in	n Behavioral Ecology	
Trumber 33 %	Code		,	
Credits (Review	Grading	Course Description (Syllabus must be attached; see Guidelines)		
<u>Provost</u> Memorandum)	(Select One Option)	Behavioral ecology is a field that seeks to understand the evolution and		
3	Regular ()	fitness consequences of behavior. Students will read scientific papers and discuss key concepts and areas of study in the field of behavioral ecology		
Effective Date	Regulai		,	
(TERM & YEAR)	Sat/UnSat (
spring 2018				
Dronoguicitos		Companisitos	Designation Controls (1)	
Prerequisites		Corequisites	Registration Controls (Major, College, Level)	
a B.S. in Biology, Zoology, or			MS and PhD candidates in	
Psychology			College of Science	
Prerequisites, Corequis	sites and Registration	Controls are enforced for all sec	tions of course	
Minimum qualifications needed to teach		List textbook information in syllabus or here		
course:		None.		
Member of the FAU graduate faculty				
and has a terminal degree in the				
subject area (or a closely related field.)				
Faculty Contact/Email/Phone		List/Attach comments from departments affected by new course		
Rindy Anderson, andersonr@fau.edu, 954-236-1144				

Approved by	Date
Department Chair	17-6-17
College Curriculum Chair	11-6-17
College Dean Dr. Charles Roberts	11-6-2017
UGPC Chair ————————————————————————————————————	
UGC Chair ————————————————————————————————————	
Graduate College Dean	
UFS President	
Provost	

Email this form and syllabus to UGPC@fau.edu one week before the UGPC meeting.

GRADUATE COLLEGE

NOV 0 6 2017

Topics in Behavioral Ecology

ZOO 6516 Credits: 3

Spring 2018

W F 11:00 am - 12:20 pm ES 121

Instructor:

Dr. Rindy Anderson Office: 336 Davie West

954-236-1144 Office h

Office hrs: 12:30 - 1:30 pm W F

andersonr@fau.edu

Course description and general objectives

Why does the animal do that? Behavioral ecology is a field that seeks to understand the evolution and fitness consequences of behavior. Behavioral Ecology can be viewed as a subfield of Animal Behavior. The field of Animal Behavior is concerned with "Tinbergen's Four Questions" – development of behavior, mechanisms of behavior, function of behavior, and evolution of behavior. Behavioral Ecology, and thus this course, is focused primarily on the last two of these questions: how animal behaviors relate to their fitness consequences (survival and reproductive success) and how studying such relationships helps us to understand how behavior evolves. Behavioral ecology utilizes field observations and experiments as well as theoretical approaches and mathematical modeling to generate evolutionary hypotheses and predictions. In this course, students will explore key concepts and areas of study in behavioral ecology including evolutionary arms races between predators and prey, aggression and competition for resources, cooperation and living in groups, sexual conflict, altruism, cognitive ecology, and communication.

Learning Objectives

Students successfully completing this course will become familiar with the major topics and research approaches in the field of behavioral ecology. By the end of this course, students should have gained experience and skills in the following areas:

- Team work: work in teams comprising diverse personalities, levels of knowledge and skill sets to answer questions and solve problems
- Presentation: use Microsoft Powerpoint and web-casting software to create student presentations and video lectures
- Communication: write clear, succinct "Five-minute Essays" providing a hypothesis, explaining a concept, or arguing a position
- Synthesis: read, critically evaluate and discuss scientific literature in a productive way
- Skill: understand how to frame scientific questions, hypotheses, and predictions and explain how scientists use the scientific method to understand how and why behavior evolves
- Knowledge: explain Tinbergen's Four Questions and how they provide a framework for research in behavioral ecology

GRADUATE COLLEGE

NOV 0 2 2017

Received

Semester at a glance

Jan 10	Course introduction, student introductions
Jan 12	How to read and discuss a scientific paper, class discussion of assigned reading
	Pre-class work: Read Herborn et al. 2014, and "How to read a scientific paper"
Jan 17	Formation of teams, icebreaker exercises, in-class assignment
Jan 19	What is Behavioral Ecology? RAT quiz #1
	Pre-class work: Read Alcock text chpt 1, watch video lecture #1
Jan 24	How do we ask questions and test hypotheses in behavioral ecology? - RAT quiz #2 Pre-class work: Read Davies text chpt 2, watch video lecture #2
Jan 26	How do we ask questions and test hypotheses in behavioral ecology? – Paper discussion
Jan 31	Pre-class work: Read Bateson and Laland paper, bring three discussion points
Jan 31	Darwin, natural selection and adaptation - RAT quiz #3
Feb 2	Pre-class work: Davies text chpt 1, watch video lectures 3 and 4 Darwin, natural selection and adaptation - Paper discussion
1602	Pre-class work: Read Seddon 2005, bring three discussion points
Feb 7	Sexual selection and choosing mates - RAT quiz #4
1607	Pre-class work: Read Dugatkin chpt. Sexual Selection, watch video lectures 5 and 6
Feb 9	Team work on Team Takeover presentations
Feb 14	Application Exercise 1 – Human Non-Verbal Communication
Feb 16	Altruism, kin selection and social conflict - RAT quiz #5
160 10	Pre-class work: Read Alcock chpt 2, watch video lecture 7
Feb 21	Altruism, kin selection and social conflict - Paper discussion
16021	Pre-class work: Read Carter and Wilkinson 2013, bring three discussion points
Feb 23	Predators vs. prey - RAT quiz #6
10025	Pre-class work: Read Dugatkin chpt on Predation, watch video lecture 8
Feb 28	Predators vs. prey - Paper discussion
10020	Pre-class work: Read Vallin et al. 2006, bring three discussion points
	The class work. Neda valilitet al. 2000, bring three discussion points
Mar 2	Application Exercise 2 - The case of the seaside sparrow
Mar 2 Mar 6 – 12	Application Exercise 2 – The case of the seaside sparrow SPRING BREAK
Mar 6 – 12	SPRING BREAK
	SPRING BREAK Communication: fighting, mating and assessment - RAT quiz #7
Mar 6 – 12 Mar 14	SPRING BREAK Communication: fighting, mating and assessment - RAT quiz #7 Pre-class work: Read Dugatkin chpt on Communication, watch video lecture 9
Mar 6 – 12	SPRING BREAK Communication: fighting, mating and assessment - RAT quiz #7 Pre-class work: Read Dugatkin chpt on Communication, watch video lecture 9 Communication: fighting, mating and assessment - Paper discussion
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Course format

There is no required textbook for this course.

Please keep in mind that this course will be demanding and challenging, but it is not designed to "weed out" students. Every student can do well in this course if they come prepared, work well in teams, participate in all aspects of the course and act professionally. I want you to have fun in this course. I want to have fun. If you are struggling with any aspect of the course please talk to me so that we can work on a solution together.

I will post pre-class assignments and other course materials on the Canvas course web site on the FAU server. Please make sure you have regular access to that page.

<u>Working in teams:</u> Team work is central to this course so it is important that you are prepared, courteous, respectful and professional while working with your team. A good attitude is important. You will be assigned to a team at the beginning of the course and you will work with this team throughout the course on quizzes, activities and presentations. Part of your grade will be determined by how well you work with your team. If you have a concern about a team member who is disruptive, chronically unprepared, or has a bad attitude, please see me as soon as possible.

Readiness Assessments (quizzes): At the beginning of class one day each week (typically Monday) we will begin class by taking a quiz composed of 8 questions. These will be multiple choice or fill-in answer format. You will first take the RA on your own and will be given 10 minutes to complete it. You will then take the same quiz again only this time your team will work on the answers together. You will get 10 minutes take the RA as a team. We will then discuss the answers as a class to make sure that everyone understands the correct answers. Your individual score and group score count equally toward your final grade.

<u>Paper discussions:</u> Once a week we will use class time to discuss a published scientific paper that you will read ahead of time. For each paper you will write down three points for discussion and bring them to class. These could be questions that you pose and attempt to answer, definitions that you provide, arguments that you make (based on knowledge or evidence), or critiques that you offer (based on knowledge or logical reasoning). We will use these talking points to guide our discussions during class. You will receive points for completing the assignment only if you bring three talking points for each paper.

<u>Application exercises</u>: These are case studies in which background information pertaining to a given behavioral scenario is presented in a handout for students to read. Students then work in their teams to answer questions, solve problems or design experiments. The goal of these exercises is to deepen student understanding of the material and to practice applying the knowledge gained about the topic to real-world behavioral ecology scenarios.

<u>Team Takeover presentation:</u> This presentation project will provide the largest component of the students' final grade. During the first part of the course, Professor Anderson will cover key topics in the field of Behavioral Ecology by creating video lectures, writing RA quizzes, choosing readings and facilitating discussions, and creating and leading application exercises. During the last several weeks of class, each team will take over an entire class period to cover a chosen topic. The team will create video lectures, assign readings, write an RA quiz, and create Application Exercises for the class to complete. Teams will meet with Professor Anderson during class several weeks before the presentations begin to discuss the

topic chosen for their presentation and the activities they have planned for the class. Time will be given in class for teams to work on their presentations, but teams should plan to meet outside of class as well.

<u>Cumulative final exam:</u> There will be approximately 20 questions including multiple choice, matching and fill-in-the-blank, and two essay questions.

How grades will be determined

Graded work	pts per unit	no. of units	total pts	%grade
Individual RA scores*	8	12	96	19
Group RA scores	4	12	48	10
Paper discussion participation/attendance	8	9	72	14
Application exercises	5	12	60	12
Team Takeover score	100	1	100	20
Team Takeover participation	20	1	20	4
Attendance	2	16	32	6
Cumulative Final Exam	70	1	70	14
TOTAL			498	100

^{*} We will take 14 Individual and Group RA quizzes. You may drop your 2 lowest Individual and 2 lowest group scores.

Determination of letter grades will be based on your total point score as follows:

95% or greater	= A
88% - 94%	= A-
86% - 87%	= B+
78% - 85%	= B
76% - 77%	= B-
74% - 75%	= C+
68% - 73%	= C
66% - 67%	= C-
64% - 65%	= D+
58% - 63%	= D
55% - 57%	= D-
<55%	= F

Expectations

Religious holidays: Students who wish to be excused from course work, class activities or examinations must notify Professor Anderson of their intention to participate in religious observation and <u>request an excused absence within the first three days of class meeting.</u>

Ethical and courtesy expectations:

Please do not be late for class. In addition to disrupting the class, you may miss a quiz. You will not be given extra time to complete the quiz.

Please do not leave early before the class ends. This disrupts the class. If you must leave early, please sit at the back of the class or near an exit and leave quietly.

Please stay on task during discussions and while working in teams. Do not have irrelevant conversations as this disrupts the class and makes it difficult for me to keep the class focused and for your team to complete assignments.

Attendance Policy: Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by Professor Anderson. The effect of absences upon grades is determined by Professor Anderson, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give Professor Anderson notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Academic Integrity: FAU and I expect academic integrity of our students. Academic dishonesty is considered a serious breach of ethical standards because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, please see the details in the Undergraduate Catalog, and Students Handbook. In addition, do not copy any material from other students during exams and quizzes. Do not copy material from published sources for your written projects or presentations. http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf

Disability policy: In compliance with the Americans with Disabilities Act (ADA), students who require reasonable accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) — in Boca Raton, SU 133 (561-297-3880); in Davie, LA 240 (954-236-1222); in Jupiter, SR 110 (561-799-8010); or at the Treasure Coast, CO 117 (772-873-3441) — and follow all OSD procedures.

Credit Hour Definition

This course involves 50 minutes of in class instruction for each credit hour per week, and a minimum of two hours of out of class assignments each week for 15 weeks. To master the material covered in this course it is expected that the student will spend a minimum of two hours per week per credit hour on the out of classroom assignments.

Reasonable Accommodation Statement for Makeups

Reasonable accommodation will be made for students participating in a religious observance or in University-approved activities, including athletic or scholastics teams, musical and theatrical performances and debate activities.