Bio 43 - Animal Behavior (Ticket# 11285)  
Fall 2013

Instructor: Dr. Marcelo N. Pires  
E-mail: mpires@saddleback.edu  
Lecture: T, 1:30 - 4:20pm (3 units)  
Room: SM 205  
Office hours: TTh, 9:30am-12pm; SM 249

About this course: We will explore the genetic, chemical, environmental, and experimental determinants of animal behavior under an evolutionary framework. Students are expected to have a basic understanding of biological systems (Bio 20, Introduction to Biology, is a recommended preparation course). Detailed information on different aspects of this course follows below.

Abbreviated course schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture topics, assignments, quizzes</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug. 20</td>
<td>Introduction; Science, Evolution, Behavior</td>
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<tr>
<td>2</td>
<td>Aug. 27</td>
<td>Hormones and Neurobiology; Molecular Genetics and Development</td>
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<tr>
<td>3</td>
<td>Sep. 3</td>
<td>Holiday</td>
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<tr>
<td>4</td>
<td>Sep. 10</td>
<td>Learning and Cultural transmission</td>
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<tr>
<td>5</td>
<td>Sep. 17</td>
<td>Sexual selection</td>
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<tr>
<td>6</td>
<td>Sep. 24</td>
<td>EXAM 1 (Chapters 1-6) / in-class activity</td>
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<tr>
<td>7</td>
<td>Oct. 01</td>
<td>Mating systems</td>
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<tr>
<td>8</td>
<td>Oct. 08</td>
<td>Kinship</td>
</tr>
<tr>
<td>9</td>
<td>Oct. 15</td>
<td>Cooperation</td>
</tr>
<tr>
<td>10</td>
<td>Oct. 22</td>
<td>Foraging</td>
</tr>
<tr>
<td>11</td>
<td>Oct. 29</td>
<td>Antipredator behavior</td>
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<tr>
<td>12</td>
<td>Nov 5</td>
<td>EXAM 2 / in-class activity</td>
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<tr>
<td>13</td>
<td>Nov 12</td>
<td>Communication</td>
</tr>
<tr>
<td>14</td>
<td>Nov 19</td>
<td>Habitat selection, territoriality, and migration</td>
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<td>15</td>
<td>Nov. 26</td>
<td>Aggression</td>
</tr>
<tr>
<td>16</td>
<td>Dec 03</td>
<td>Play; Animal personalities</td>
</tr>
<tr>
<td>17</td>
<td>Dec 10</td>
<td>Human behavior; Review for final exam</td>
</tr>
<tr>
<td>18</td>
<td>Dec 17</td>
<td>FINAL EXAM : 3 - 5 pm at SM 205</td>
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**Textbook**
Principles of Animal Behavior (3rd edition), by Lee Alan Dugatkin
http://books.wwnorton.com/books/Principles-of-Animal-Behavior/

**Blackboard Site:**
http://socccd.blackboard.com
Download course materials from Blackboard

- This is a site closed to the public, but open to you upon enrolling in this class. It contains material to help you follow lectures and prepare for exams, web resources, updated grade sheets, and will have important weekly announcements.
- To enter Blackboard, you will need to log on by entering your username and your password.
- Need help? Go to the school website and click on the "Online Education" drop down menu. Click on "Student Technical Support" and you'll see a variety of helpful items. You can also look at a YouTube video on how to log onto Blackboard and how to change your 4 number PIN to your personalized password.

http://www.youtube.com/user/saddlebacklibrary#p/u/3/0z60y97whng
http://www.socccd.edu/help/login.htm

**Student Learning Outcomes:**
Upon completion of this course, the student will be able to:

1. Explain what is meant by proximate and ultimate explanations in studies of animal behavior.
2. Describe some of the classic studies in the history of animal behavior research.
3. Describe how genes, environment, and development influence animal behavior.
4. Explain the importance of empirical research through the study of some aspect of animal behavior.
5. Describe current theories including but not limited to:
   a. evolution of animal communication
   b. foraging behavior
   c. mating systems and sexual selection
   d. evolution of social behavior
6. Discuss how an understanding of animal behavior is related to human social organization.

**IMPORTANT DATES**

<table>
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<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Drop with Refund by:</td>
<td>Sunday, 9/1/2013</td>
</tr>
<tr>
<td>Drop without 'W' Grade by:</td>
<td>Tuesday, 9/3/2013</td>
</tr>
<tr>
<td>Drop with 'W' Grade by:</td>
<td>Tuesday, 11/5/2013</td>
</tr>
<tr>
<td>EXAMS:</td>
<td>Sep. 24 and Nov. 05</td>
</tr>
<tr>
<td>FINAL EXAM:</td>
<td>Dec. 17</td>
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</table>
**Make-up Exams and Quizzes:** If there is a problem with the exam or quiz dates, see me well in advance so other arrangements can be made. Exams will be given in class and quizzes should be taken online by the due date. The only acceptable excuses for missing an exam are listed below. Students who fail to take an exam should consider dropping the course. All students must take the final exam.

**Acceptable Excuses:** There are very few excuses that will be deemed acceptable for unscheduled late work submission or missed exams. These are listed below:

1. **Death**
   Death of a very close person, friend, and/or relative. I will require a certified copy of a death certificate for the deceased. In addition, if it is not obvious that this person is a relative (i.e. same surname and address), I will require a notarized statement of the relationship between yourself and the deceased.

2. **True Personal Emergency**
   We all have true personal emergencies. For instance, a ruptured appendix or a car accident may prevent you from being present for an exam. If such a situation should arise, please document it fully; examples of appropriate documentation include signed doctors’ notes, hospital records showing your admission, police reports, etc. Notes from your parents are not acceptable.

**Attendance:** Attendance is mandatory. Since many of the questions on the tests will come from the lecture material, it is critical that students attend all class meetings. In addition, paper discussion assignments are due weekly starting on week 2 and must be submitted in person – your participation in the discussion will be part of your grade and is necessary for receiving full credit. If you must miss a class, it is your responsibility to get the notes from a fellow student. If your number of absences exceeds the number of hours the class meets in two weeks (i.e. 6), the instructor may drop you from the course. **However, it is ultimately the student’s responsibility to drop themselves from the course.** Poor attendance and participation may result in the loss of one grade level (i.e. a student will fall from an “A” to a “B”).

**Grading:** Your course grade will be based upon the following:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>% of final grade</th>
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<tbody>
<tr>
<td>2 exams</td>
<td>25%</td>
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<tr>
<td>1 final exam</td>
<td>20%</td>
</tr>
<tr>
<td>Worksheets</td>
<td>20%</td>
</tr>
<tr>
<td>Journal</td>
<td>20%</td>
</tr>
<tr>
<td>Weekly online quizzes</td>
<td>15%</td>
</tr>
</tbody>
</table>

**Exams:** All exams will cover assigned readings (emphasis will be given on lecture material) and selected material covered during in-class discussions. Exams will be based on multiple choice questions and short answer questions. The final exam is comprehensive (with emphasis on chapters 11-14). Weekly online quizzes (see more below) are a good representation of the type of multiple choice questions that will be found on exams. Lists of possible short answer questions will be provided as a study guide.

**Online quizzes:** Online quizzes will be available through our Blackboard page. You have one week to take each quiz, which will address the material covered on the previous lecture. You are encouraged to look at your lecture notes and at your textbook while taking the quiz.
Worksheets: Starting on week 2, we will spend some time during the course discussing a specific paper or video. All papers and worksheets will be available through our Blackboard page. Each worksheet that must be turned in on the day assigned for that discussion. Your answers on the worksheet must be typed and should be written by you - although you are encouraged to discuss them with me or with other students, they must reflect your personal work (see “Math, Science, and Engineering Division Policy on Academic Integrity”, below). After a few minutes of small-group discussions, you should be prepared to answer and discuss questions from the worksheet with the whole class.

Journal: Starting on week 4, you will turn in a short description and analysis of a behavior that you have observed in a wild animal. Specific instructions for this assignment will be posted on Blackboard.

Tentative Grading Scale: Grades will be posted on our Blackboard grade book as they become available. I grade on a standard 10% breakdown. Based on this, the following are the expected letter grades at the end of the semester: A = 90% and above; B = 80-89.9%; C = 70-79.9%; D = 60-69%; F = 59.9% and below.

Reasonable accommodation: All reasonable efforts will be made to accommodate students with disabilities. It is your responsibility to provide documentation of your disability and resolve the appropriate accommodation(s) within the first of the semester. NO students may use dictionaries or electronic translation devices during lecture exams without prior permission of the instructor.

Beepers, pagers or cellular phones must be turned off (preferably) or set on vibrate or another silent mode during class, as a matter of respect towards the instructor and your classmates.

Laptops or tablet computers may be used for taking notes, looking at lecture slides, papers, or other course-related material; however, if you are using your computer during class time in a way that your instructor judges disruptive to your classmates, you will be asked to turn your computer off and 10 points may be deducted from your final grade. Any other disruptive and/or disrespectful behavior will be treated similarly and you may also be asked to leave the classroom.

Math, Science, and Engineering Division Policy on Academic Integrity

Statement of Purpose
Academic integrity is not just a matter of “following the rules.” It is a matter of participating in an intellectual community in a way that fosters the values of that community. These values include the promotion of learning, the sharing of knowledge, and the honest acknowledgment of the various sources of information. This document is designed with the purpose of clarifying some specific student actions that promote or violate these values. It should be read as a reinforcement, clarification, and extension of the "Academic Honor Code" as stated in the Saddleback College Catalog (under the section of "Student Rights and Responsibilities") and in the Student Handbook as the "Code of Conduct".

This document is not designed to be an exhaustive list of academic “dos and don’ts.” Rather, students are expected to understand that all participants in an academic environment have an active and ongoing responsibility to be self-critical and to assess whether their actions are in compliance with a true spirit of learning. Students are accountable for academic dishonesty in any form, whether their actions are explicitly listed below or not. Further, ignorance or confusion about this policy or its interpretation is not a valid excuse for violating it. It is each student’s responsibility to recognize when an action is questionable and to question it. When in doubt, a student should always ask his or her instructor.
Academic honesty

When you submit work for credit you must do so honestly. At a minimum, this means:

1. Any and all work you submit must be your own work. For lab work, this includes gathering, analyzing, and presenting data. Group projects, if assigned, should be submitted using only the names of group members who contributed to the completion of the project.

2. You may use only those resources explicitly allowed by the instructor in completing an assignment. Allowed resources will vary with classes, instructors, and assignments. It is your responsibility to know which resources are allowed on any given assignment.

3. You must acknowledge use of allowed resources in completing an assignment, unless the instructor does not require such acknowledgment. Many instructors allow, and even encourage, students to receive help from each other, other instructors, tutors, and/or printed or online materials. At the top of any assignment on which you have received outside help, you should list the sources of that help. For example, you might write: "I worked with [names of classmates worked with]" or "I got help in the LAP from [names of tutors]."

4. Unless given explicit permission, you may not submit work for credit if that work was completed for a different class. This includes work completed for the same course in a different semester. Learning is not just about the final product, but the process, and instructors give assignments with the expectation that completing the assignment will be a learning experience.

Academic dishonesty

The following actions are considered to be cheating. Again, this is not an exhaustive list, and students are expected to take an active role in assessing their own actions to ensure that they are honest.

1. Submitting a test or any other work (including homework, lab report, research or literature report, etc.) that is copied wholly or in part from another person’s test or work, or knowingly allowing another student to copy from your work.

2. Having another person complete an assignment, take a test, or otherwise meet a requirement for you or you doing so for another student.

3. Using written or electronically retrievable notes or other unauthorized sources of information during a test.

4. Receiving specific information about a test from anyone but the instructor during the test, or giving to or allowing another student to get from you such information during the test.

5. Receiving specific information about the contents of a test before taking it, or providing specific information about a test after taking it in such a way that another student receives the information before s/he takes the same or a similar test.

6. Plagiarizing assignments from any source including Internet sources.
Academic dishonesty (continued)

7. Falsifying or altering laboratory data, or copying results or answers from another student. Even if you were directed to work in a pair or other grouping, and although you may be allowed to share "primary data", it will be considered as evidence of cheating if you and another student report identical results that should naturally differ from one student to another, or identical wording in conclusions, answers to questions, etc. "Primary data" means numerical values or observations obtained directly by the experimenter or read directly from a measuring instrument.

8. Submitting a lab report using data you did not help to collect or sharing data with a student who did not help collect it. This does not include data provided by the instructor. While lab work is often done in groups, each group member is expected to participate in performing the experiment and analyzing and presenting the data collected.

9. Getting allowed help in preparing, writing, reviewing, editing, or proofreading an assignment for submission without acknowledging that help, if required by the instructor. This includes help from any source including other students, teachers, lab technicians, family members, friends, acquaintances, and even from anonymous sources (especially Internet sources). It may not be considered cheating to get the help, but it is definitely considered cheating not to note the source and extent of the help in a prominent way in the submitted work, if required by the instructor.

10. Using the whole of or substantial part(s) of any written assignment submitted for credit in another (concurrent or previously taken) course, without the explicit permission of the current instructor.

The penalties for any act of academic dishonesty are left to the discretion of the instructor. Possible penalties are listed in College Catalog and the Student Handbook. It is the policy of this division that all acts of dishonesty are reported to the Division Dean and the Vice President for Student Services. The Vice President keeps records of all reported incidents, and repeated offenses are handled with increasing severity.

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Class Agreement Form

I understand that I am enrolling in **Biology 43, Animal Behavior**. I have read and agree to the policies put forth in the class syllabus and especially those listed below:

1. I have read and will abide by the Saddleback College Math, Science, and Engineering Division Policy on Academic Integrity.

2. I agree that any breach of the policies set forth in the syllabus will result in harsh consequences. Such consequences are indicated in the syllabus and may include expulsion from this class. I agree to accept these consequences if it is determined that I was cheating (as defined in the MSE Honor Code).

_____________________________________________________________________
Name (printed) Student Number

_____________________________________________________________________
Signature

_____________________________________________________________________
Date

TURN THIS PAGE IN TO YOUR INSTRUCTOR BY THE SECOND WEEK OF CLASSES