

Marine Mammal Biology – Spring 2022

PCB4460

I. INSTRUCTOR INFORMATION

Professor:

Stefanie Gazda, Ph.D.

Bartram Hall room 214A

Email: stefanie.gazda@ufl.edu

Office Hours: Thursdays, 1:30 pm to 3:30 pm,
in person or via [Zoom](#).

If you want to meet over Zoom, please sign up
for a slot on Canvas in the Calendar.

II. COURSE INFORMATION

This course will meet Mondays, Tuesdays, Wednesdays, and Thursdays from 9:35 AM to 12:35 PM in Carr Hall room 0611. There are several all-day field trips (see the syllabus for the schedule of dates); students should expect to meet very early in the morning on Campus and return in the late afternoons.

Students can drive themselves to field trip sites if they would prefer; you are responsible for reaching the destination on time and all transportation costs (parking, tolls, etc).

Assignments will be turned in through the Canvas course site. You can directly access the Canvas login at <https://elearning.ufl.edu/>.

COURSE COMMUNICATION

All e-mail correspondence to the Course Instructor must originate from your ufl.edu account, have your full name in the body of the e-mail, and contain your course number in the subject line. E-mails not meeting these requirements may not be recognized by our e-mail filters, and thus may not be answered.

COURSE TEXTBOOK AND SOFTWARE

The textbook is required for this course (please bring it to class meetings). You may choose to buy a hardcopy of the textbook or the eBook.

Marine Mammals, Evolutionary Biology, **Edition 3**, by Annalisa Berta, James L. Sumich and Kit M. Kovacs. Publication date: 23 Apr 2015

EBook ISBN: 9780123972576

Hardcover ISBN: 9780123970022



Students will need a laptop, the MS Office Suite, and a working copy of the Raven Lite 2.0 acoustic software from the Cornell Lab of Ornithology.

Raven Lite 2.0 is required and is free for students. Order it here:
<http://ravensoundsoftware.com/raven-pricing/#raven-lite-license>

System Requirements (your machine must be able to support it) can be found here:
<http://ravensoundsoftware.com/system-requirements/>

Students will need to bring headphones to complete the Sound Lab.

COURSE DESCRIPTION

Some terrestrial mammals evolved adaptations in the past that allowed them to move towards either a full or a partial marine existence. This course will provide an understanding of a charismatic group of species, the marine mammals (cetaceans, pinnipeds, sirenians, sea otters and the polar bear), including evolutionary biology, physiology (locomotion, diving, thermoregulation, osmoregulation, reproduction), ecology (foraging/feeding behavior, distribution and habitat use, population dynamics), conservation and management. This course is an important upper division offering for Biology and Marine Biology majors.

PREREQUISITE KNOWLEDGE AND SKILLS

Prerequisite: BSC2010 and BSC2011 or the equivalent. It is highly recommended that students have taken Evolution and General Ecology either in a prior semester or concurrently.

MINIMUM TECHNICAL SKILLS

To complete your tasks in this course, you will need a basic understanding of how to operate a computer, and how to use word processing software. You will need to use a presentation-based software such as PowerPoint, and you may need to access Zoom (with a webcam) during Office Hours.

.HEIC files are not permitted.

All assignments should be typed whenever possible, including tables: Only type-written documents in a recognizable file format will be accepted; photos/scans of hand-written text or screenshots of typed documents will not be graded and will result in no credit for that assignment (the only exception is for some diagram labels which may be hand-written; these will be made clear on the assignment instructions).

Files should be uploaded in PDF format; do not save text as images within a PDF. If your PDF cannot be read by the Turnitin software (a grey icon will appear in your gradebook next to the assignment), you will need to resubmit it in a readable format prior to the due date.

COURSE GOALS AND OBJECTIVES

The goals of this course are to provide a broad overview on the biology of marine mammals. Students will understand the evolution and systematics of this group as well as gain a functional knowledge of their anatomy and physiology. They will also learn about the behavior, ecology and population biology of marine mammals and understand the relevant theoretical bases of these disciplines through lectures, discussions, projects, and guest speakers. A broader outcome of this course will be training student to read, interpret and synthesize scientific literature on specific topics.

The objectives of the course will be achieved if, by its conclusion, students can:

- Identify the major groups of marine mammals and describe their unique physiological and ecological characteristics.
- Discuss the major threats to marine mammal conservation and evaluate why certain species are particularly susceptible to these threats.
- Synthesize the primary literature into a written analysis on a marine mammal species and related course topic of your choice.

COURSE EXPECTATIONS

Each student is solely responsible for reading and following the instructions, guidelines, and schedules in this syllabus. Not having read the information in this syllabus or in Instructor announcements will not constitute an excuse for missing an assignment or other assessment.

III. COURSE POLICIES

As part of ZOO 4460, you are required to complete assignments. If at any time you have questions about these assignments, please contact the Instructor. A schedule will be posted on eLearning with the due dates for each assignment. All assignments must be completed by the stated due date and time for credit. No credit will be given for assignments completed after the deadline. **Extensions will NOT be given because of technical or personal issues that occur within 24 hours of the assignment deadline.** Many assignments may take several days to complete, so make sure you have time to devote to that assignment before you begin. You are expected to work by yourself on the

assignments (other than group-based work) and cheating will not be tolerated. Note that all due dates for assignments are clearly posted on the course website and reflect the most up-to-date information.

ATTENDANCE

Students are expected to check the Canvas course regularly for announcements, assignment due dates, and other course-related information. Students are to complete all assigned work (quizzes, activities, and discussions) by the due dates. Students are expected to read the assigned chapters prior to class and before attempting any of the assignments as this will make it easier to comprehend the material.

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>.

TIME COMMITMENT

The UF College of Liberal Arts and Sciences assumes that each student will devote 3-4 hours per week per credit-hour to each course, including time in lectures and labs. Because ZOO 4460 is four credits in a shortened schedule, each student should therefore expect to devote 18-24 hours per week minimum to this course during a regular semester. If you find yourself spending more than the recommended number of hours per week on average on these activities, discuss this with your course Instructor to see if you can refine your study habits. If you find yourself spending less than the recommended number of hours per week on average, you should recognize that you may have difficulty learning and comprehending the material in this time, and this will probably be reflected in poor performance on the various assessments, causing you to receive a lower overall course grade.

COMMUNICATION WITH YOUR INSTRUCTOR

When you have a question about the assignments, check the following sources first to see if it is already answered, before e-mailing your Instructor:

- Course Syllabus
- eLearning Announcements (this is the primary means that your Instructor has to communicate with you in a timely manner)

If you still cannot find the answer to your questions:

- Ask during your class meetings.
- If it is a question specific to you (e.g., account or grade specific), e-mail your Instructor. Barring unusual circumstances, expect a reply with 24 hours (48 hours on weekends; do not expect an immediate response in the evenings). E-mails are checked at least once per day, but sometimes not more than that.

COURSE ACTIVITIES AND MATERIALS

There are several different types of assignments that students will have to complete. For most assignment types (activities, presentations, etc.) you will receive a grade based on the grading rubric provided. **There are no make-ups available for assignments.** Once assigned, assignments are always available online up until the deadlines. Because they are assigned well ahead of time, documentation of illness or a serious personal matter must be provided for at least five of the seven days of the week of the assignment's deadline for any accommodations to be made. It is especially important not to wait until just before the deadlines to complete assignments. A computer problem happening just before the deadline is not a valid excuse for not completing the assignment. If there is a technical problem with accessing the website or a particular assignment within Canvas, you must contact eLearning technical support and the online Instructor at least 48 hours prior to the deadline, so appropriate steps can be taken to fix the issue and appropriate extensions can be given if necessary. (Thus, check early that you can access the assignments. You will not be granted an extension for technical problems if you do not contact the online Instructor before the deadline.) It is best to get your assignments done at least two days early. It is your responsibility to have and maintain all the equipment and services necessary to participate in an online course.

Repeated for emphasis: technical problems must be reported to the Instructor at least 48 hours prior to the submission deadline, no exceptions!

Attendance and Participation

Participation will also be measured by student contributions to class discussions and your overall course participation. This includes asking and answering questions from your Peers and the Instructor.

Group Conservation Presentations

In groups of 3 to 4 students, you will choose a specific case of marine mammal conservation and present the conservation problem to your peers in a 10-minute oral presentation. As part of the assignment, your group will choose one scientific paper from the primary literature for the class to read. It will be posted to Canvas at least one week before your presentation. There will be a discussion/debate of the presentation in class that your group will be responsible for moderating. The paper should be pertinent to your topic and should form the foundation for your discussion/debate. The Instructor must approve topics by the date listed in Canvas and each group should choose a different topic. All PowerPoint presentations are due the same date on Canvas, though the discussions will be over two days of class.

Example topics include the Eastern Tropical Pacific dolphins and yellowfin tuna fishery, vaquita, harbor porpoise in the Gulf of Maine, Florida manatees, North Atlantic right whales, Hawaiian monk seal, river dolphins, Canadian seal cull, or another of your choice.

Miscellaneous Exercises (Take Home, Dichotomous Keys)

There are approximately four smaller in size exercises that students will either complete in class or as homework. They will be submitted via Canvas.

Lab Reports

Students will complete approximately three Labs as part of this course. While the data collection can be collaborative, each student is responsible for submitting their own individually typed report. The lab reports will not follow the standard scientific paper format (Introduction, Methods, Results, etc) but rather a more standard essay format that will emphasize your understanding of the ecology of marine mammals. More details can be found on Canvas.

Literature Review Paper

Every student will submit a three page, 1.5-spaced paper at the end of the semester that synthesizes the current scope of a research topic on a species of Marine Mammal. Papers should extensively cite the primary literature in their analysis. More details can be found on Canvas.

COURSE GRADING

Assignment totals are subject to change at the discretion of the Instructor. All grades will be posted on eLearning, and it is the responsibility of the student to check their grades to make sure they are accurate. If there is a discrepancy, you must let me know within ONE week of the grade being posted on eLearning.

Assignments	Percentages
Attendance and Participation	20%
Group Conservation Presentation	15%
Miscellaneous Exercises	15%
Lab Reports	20%
Literature Review Paper	20%

The minimum grade cutoffs are listed below. These cutoffs will not be raised; in other words, if you receive 90% of the possible points, you are guaranteed to earn an A grade. Final scores will NOT be rounded (i.e., 89.99% is not 90%).

Point Range (%)	Letter Grade
≥ 90.00	A

Point Range (%)	Letter Grade
≥ 86.66	A–
≥ 83.33	B+
≥ 80.00	B
≥ 76.66	B–
≥ 73.33	C+
≥ 70	C
≥ 66.66	C–

Note that the current UF policy for assigning grade points is available at the following undergraduate catalog web page: [Grades and Grading Policies](#).

Please do not request individual special treatment regarding grading at the end of the semester; **I do not adjust grades for individuals for any reason.** Plan to do well on all exams and other assessments from the beginning of the semester; if you are having difficulty in the class, please let me know *immediately*.

PARTICIPATION

Group assignments require you to discuss answers in groups. You must adhere to the etiquette policies outlined below. Keep in mind that discussions should make educated initial comments about the topic and properly cite sources and provide constructive criticism and feedback for groupmates.

Etiquette

When participating in discussions in your class, you should:

- Make comments that are on-topic and within the scope of the course material.
- Take your comments seriously and review and edit your thoughts before stating them.
- Be as brief as possible while still making a thorough comment.
- Always give proper credit when referencing or quoting another source.
- Do not repeat someone else's comment without adding something of your own to it.
- Avoid short, generic replies such as, "I agree." You should include why you agree or add to the previous point.
- Always be respectful of others' opinions even when they differ from your own.
- When you disagree with someone, you should express your differing opinion in a respectful, non-critical way.

- Do not make personal or insulting remarks.
- Be open-minded.

COURSE TECHNOLOGY REQUIREMENTS

It is the responsibility of the student to maintain a functioning computing system and internet connection that can meet the minimum technical requirements of the course.

Computing/internet connectivity issues will NOT be acceptable excuses for missed deadlines unless they are brought to the attention of the Instructor at least 48 hours prior to the deadline and accompanied by the ticket number from technical support.

LATE WORK

Late work will not be accepted, unless there is written documentation from the Dean of Students Office (<https://care.dso.ufl.edu/Instructor-notifications/>), or due to a documented technical issue. If there is an issue with you completing your assignments on time, contact your Instructor immediately. Do not wait until the last minute!

MAKE-UPS

There are no make-ups available for assignments. Once assigned, assignments are always available online up until the deadlines. Because they are assigned well ahead of time, documentation of illness or a serious personal matter must be provided for at least five of the seven days of the week of the assignment's deadline for any accommodations to be made. All documentation must go through the Dean of Students Instructor Notification system (<https://care.dso.ufl.edu/Instructor-notifications/>). A personal matter must also go through the same process. These notes must be received within five business days.

It is especially important not to wait until just before the deadlines to complete assignments. A computer problem happening just before the deadline is not a valid excuse for not completing the assignment. If there is a technical problem with accessing the website or a particular assignment within CANVAS, you must contact eLearning technical support and the online Instructor at least 48 hours prior to the deadline, so appropriate steps can be taken to fix the issue and appropriate extensions can be given if necessary. (Thus, check early that you can access the assignments. You will not be granted an extension for technical problems if you do not contact the online Instructor before the deadline.) It is best to get your assignments done at least two days early. It is your responsibility to have and maintain all the equipment and services necessary to participate in an online course.

Repeated for emphasis: Technical problems must be reported to the online Instructor at least 48 hours prior to the submission deadline, no exceptions!

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

COVID-19

If you are experiencing COVID-19 symptoms ([click here for guidance from the CDC on symptoms of coronavirus](#)), please use the UF Health screening system and follow the instructions on whether you are able to attend class. [Click here for UF Health guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms](#). Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. Refer to the above link for more information on the university's attendance policy.

It is not possible to make up the immersive parts of this course; therefore it is expected that students will take precautions to keep themselves and the others in this course (peers and the Instructor) as safe as possible.

DROP/ADD/WITHDRAWAL

A student can drop/add during the drop/add period with no penalty. After drop/add, a student who drops will receive a W until the date listed in the academic calendar. After that date, the student may be assigned an "E" (fail). Note: it is the responsibility of the STUDENT to withdraw from a course, not the Instructor. Failure to participate/complete the class does NOT constitute a drop.

COURSE EVALUATIONS

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

IV. UF POLICIES

Please read this section in full.

UNIVERSITY POLICY ON ACADEMIC CONDUCT

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 honesty 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 [Student Honor Code](#) specifies the 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 in this class.

ACCOMMODATIONS 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 that must be presented to the Instructor when requesting an accommodation. Note that the student should provide documentation of a requirement for accommodation **by the second week of classes**. No accommodations are available to students who lack this documentation. It is the policy of the University of Florida that the student, not the Instructor, is responsible for arranging accommodations when needed. Once notification is complete, the Dean of Students Office of Disability Resources will work with the Instructor to accommodate the student. Accommodations are not retroactive.

CLASS DEMEANOR OR NETIQUETTE

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions, and chats. Review the [Netiquette Guide for Online Courses](#) for expected student behavior.

MINIMUM TECHNOLOGY REQUIREMENTS

The University of Florida expects students to acquire computer hardware and software appropriate to his or her degree program. Most computers can meet the following general requirements. A student’s computer configuration should include:

- Webcam

- Microphone
- Broadband connection to the Internet and related equipment (Cable/DSL modem)
- Microsoft Office Suite installed (provided by the university)
- Ability to install and run Raven Lite 2.0

Individual colleges may have additional requirements or recommendations, which students should review prior to the start of their program.

SOFTWARE USE

All faculty, staff, and students at 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. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

CLASS SESSIONS

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

V. TECHNOLOGIES

This course uses the following technologies:

ZOOM

Zoom is an easy-to-use video conferencing service available to all UF students, faculty, and staff that allows for meetings of up to 100 participants.

You can find resources and help using Zoom at <https://ufl.zoom.us>.

VI. GETTING HELP

Resources are available at [Distance Learning's Getting Help](#) for:

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

Should you have any complaints about your experience in this course, please visit [Distance Learning's Student Complaint Process](#) to submit a complaint.

College can be a very stressful time in a person's life. Resources are available on campus to help students meet academic goals and solve personal problems, which may interfere with their academic performance. If you find that you are having difficulty emotionally or academically, there is substantial support available. See "*A Self Help Guide for Students*" or contact one of the following services:

- UF Counseling and Wellness Center, Radio Rd Facility, 392-1575
- Dean of Students Office, 202 Peabody Hall, 392-1261
- Career Resource Center, Reitz Union, 392-1601
- CLAS Academic Advising Center, Farrior Hall, 100 Fletcher Drive, 392-1521
- UF Field and Fork Pantry, 564 Newell Dr., 294-3601

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live and believes this may affect their performance in the course, is urged to contact the Dean of Students (202 Peabody Hall, 392-1261) for support. Furthermore, please notify your Instructor(s) if you are comfortable in doing so. This will enable us to provide any resources that we may possess.

TECHNICAL DIFFICULTIES

For issues with technical difficulties for Canvas, please contact the UF Help Desk at <http://helpdesk.ufl.edu> or (352) 392-HELP (4357).

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from the Help Desk 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.

HEALTH AND WELLNESS

- **U Matter, We Care:** If you or someone you know is in distress, please contact <mailto:umatter@ufl.edu>, 352-392-1575, or visit umatter.ufl.edu to refer or report a concern and a team member will reach out to the student in distress.
- **Counseling and Wellness Center:** Visit counseling.ufl.edu or call 352-392-1575 for information on crisis services as well as non-crisis services.
- **Student Health Care Center:** Call 352-392-1161 for 24/7 information to help you find the care you need or visit shcc.ufl.edu.
- **University Police Department:** Visit police.ufl.edu or call 352-392-1111 (or 9-1-1 for emergencies).
- **UF Health Shands Emergency Room/Trauma Center:** For immediate medical care in Gainesville, call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; ufhealth.org/emergency-room-trauma-center.

ACADEMIC AND STUDENT SUPPORT

- **Career Connections Center:** 352-392-1601. Career assistance and counseling services career.ufl.edu/.
- **Library Support:** Various ways to receive assistance with respect to using the libraries or finding resources: cms.uflib.ufl.edu/ask
- **Teaching Center:** 352-392-2010 General study skills and tutoring: teachingcenter.ufl.edu/
- **Writing Studio:** 352-846-1138. Help brainstorming, formatting, and writing papers: writing.ufl.edu/writing-studio/

VII. PRIVACY AND ACCESSIBILITY POLICIES

For information about the privacy policies of the tools used in this course, see the links below:

Technology	Privacy Policy	Accessibility Policy/Statement
Instructure (Canvas)	Privacy Policy	Accessibility
Sonic Foundry (Mediasite Streaming Video Player)	Privacy Policy	Accessibility
Zoom	Privacy Policy	Accessibility
YouTube (Google)	Privacy Policy	Accessibility
Microsoft	Privacy Policy	Accessibility
Adobe	Privacy Policy	Accessibility

VIII. COURSE SCHEDULE

Dates	Overview	
Week 1: 1/5 – 7		
1/5:	Lecture: Overview, Research Methods, Cedar Key FL Lab Exercise: Dichotomous Keys; present results to others	Homework: Read <i>Gazda et al 2005</i> in preparation for discussion on 1/6; read chapters 1, 2, and 6 in the textbook
1/6:	Lecture: Evolution and Systematics; discussion of <i>Gazda et al 2005</i> Lab Exercise: Discuss Conservation Presentation topics with your group	Homework: Complete the Take Home 1 Exercise (due via Canvas by 1/9); read <i>Moore and Huntington 2008</i> in preparation for discussion on 1/10; read chapters 3, 4, and 5 in the textbook
Week 2: 1/10 – 14		
1/10:	Lecture: Marine Mammal Genera; discussion of <i>Moore and Huntington 2008</i> Lab Exercise: Prepare plans for Bone lab measurements	Homework: Read <i>Ray et al 2006</i> in preparation for discussion on 1/12
1/11:	Lab Exercise: Bone Lab	Homework: Bone lab report due 1/16 via Canvas; read chapters 8 and 9 in the textbook

Dates		Overview
1/12:	Lab Exercise: UF Marine Animal Rescue Lecture: Geography, Locomotion and Energetics; discussion of <i>Ray et al 2006</i>	Homework: Read <i>Caro et al 2011</i> and <i>Caro et al 2012</i> in preparation for discussion on 1/13; read chapter 7 in the textbook
1/13:	Lecture: Senses; discussion of <i>Caro et al 2011</i> and <i>Caro et al 2012</i>	Homework: Complete the Take Home 2 Exercise; submit your topic for your Literature Review for approval; submit your groups' topic choice and scientific article for the Conservation Presentations (all due via Canvas by 1/16); read chapter 10 in the textbook; read <i>Friedlaender et al 2013</i> in preparation for discussion on 1/18
Week 3: 1/17 – 21		
1/17:	Holiday, no class meeting	
1/18:	Lecture: Diving and Sound; discussion of <i>Friedlaender et al 2013</i>	Homework: Read chapter 11 in the textbook; read <i>Connor and Krutzen 2015</i> in preparation for discussion on 1/20
1/19:	Field Trip: Crystal River Manatee Tour with Dr. Iske Larkin	
1/20:	Lecture: Echolocation and Communication; Long-Term Research Studies; discussion of <i>Connor and Krutzen 2015</i>	Homework: Read chapter 12 in the textbook; work on your Literature Review (due 2/6)
Week 4: 1/24 – 28		
1/24:	Lecture: Diet and Foraging; preparation for Cedar Key Trip Lab Exercise: Sound Lab (<i>bring headphones!</i>)	Homework: Sound lab report due 1/30 via Canvas; read chapters 13 and 14 in the textbook; read <i>Wild et al 2020</i> and <i>Krutzen et al 2005</i> in preparation for discussion on 1/27
1/25:	Field Trip: Cedar Key dolphin research, all day	
1/26:	Field Trip: Cedar Key dolphin research, all day	
1/27:	Lecture: Reproduction and Population Dynamics; discussion of <i>Wild et al 2020</i> and <i>Krutzen et al 2005</i>	Homework: Complete the Take Home 3 Exercise (due via Canvas on 1/30); read <i>Whitehead et al 1995</i> and <i>Brent et al 2015</i> in preparation for discussion on 2/1
Week 5: 1/31 – 2/4		
1/31:	Lab Exercise: Mark-recapture and photo ID analysis	Homework: Mark-recapture lab report (due 2/6 via Canvas); read chapter 15 in the textbook
2/1:	Lecture: Conservation and Management; discussion of <i>Wild et al 2020</i> and <i>Krutzen et al 2005</i>	Homework: Read <i>Pace et al 2005</i> in preparation for discussion on 2/2
2/2:	Lecture: TBD; discussion of <i>Pace et al 2005</i> Lab Exercise: Work on Conservation Presentations in your groups	Homework: Upload Conservation Presentation PowerPoints (due via Canvas on 2/6); read the first set of papers for the Conservation Presentations and Discussions on 2/7; Literature Review Paper (due via Canvas on 2/8)
2/3:	Field Trip: ZooTampa	
Week 6: 2/7 – 2/8		

Dates	Overview	
2/7:	Lecture: TBD Lab Exercise: Conservation Presentations and Discussions Part 1	Homework: read the second set of papers for the Conservation Presentations and Discussions on 2/8; Literature Review Paper (due via Canvas on 2/8)
2/8:	Lab Exercise: Conservation Presentations and Discussions Part 2	Homework: NOTHING!!

VIV. DISCLAIMER

This syllabus represents the Instructor's current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.