Biology 1202
General Biology Lecture
COMPLETE SYLLABUS
Section 2, LIVE
Fall 2019

Instructor: **Dr. Adam W. Hrincevich**
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Office: 366 Life Sciences Bldg.
Office Hours: TBA, but I am available 24/7 through email and I check it several times a day.
SI Leader: TBA

Lectures: Section 2: 1:30-2:50 PM Tuesday & Thursday 103 Williams Hall

Text: **REQUIRED** Urry et al. 2017. Campbell Biology, 11th ed. Pearson Publishing Company. Available in the LSU bookstore as a **custom packaged edition** that includes the **MASTERING BIOLOGY ACCESS CODE** (which you will need). Pricing for the textbook will vary, depending on where you purchase it. The ISBN for the textbook is 9780134093413.

If you are planning on purchasing your textbook from another source, MAKE SURE that your text includes the MASTERING BIOLOGY ACCESS CODE. There will be quizzes and homework assignments posted to the MASTERING BIOLOGY website, and in order to access this information, you will require an access code. Accordingly, 10% of your overall average in BIOL 1202 will be based on these activities (quizzes and homeworks). Make sure you select the code associated with the textbook that **INCLUDES PHYSIOLOGY**. We are **NOT** using the virtual labs option for Mastering Biology.

Our Course ID for Mastering Biology is: **HRINCEVICHBIOL1202LIVEFA2019**

Biological Sciences 1202 is a Natural Science Course. This course is designed to address the following General Education Outcomes:

1. Demonstrate knowledge of a broad survey in the discipline, including the underlying principles that govern the natural world
2. Demonstrate the ability to use inductive and deductive reasoning to understand scientific phenomena
3. LSU graduates will employ scientific and mathematical methods and technology in the resolution of laboratory and real-world problems

EXPECTATIONS: This is a 3 hour credit ***LIVE LECTURE*** course. It is expected that you will spend ***at least*** 9 hours per week reading assignments, completing online quiz/homework assignments, studying lecture notes, and preparing for examinations. This 9 hour expectation is considered a minimum. In order to do well in this course, you should devote consistent blocks of time each week during which you can focus on BIOL 1202 material.

Learning Objectives for BIOL 1202: We will discuss a broad range of topics in BIOL 1202. By the end of the semester, we will have addressed the learning objectives summarized below:

1. Apply the scientific method in lab experiences to interpret information and draw conclusions.
2. Demonstrate an understanding of the impact of science on society.
3. Demonstrate an understanding of the principles of scientific inquiry.
4. Demonstrate the ability to make connections between concepts across biology.
5. Demonstrate the ability to think critically and employ critical thinking skills.
6. Demonstrate the quantitative skills needed to succeed in biology.
7. Evaluate the credibility of scientific information from various sources.
8. Read and interpret graphs and data.

MOODLE: From your PAWS desktop, you can access the MOODLE link for your section, where the class notes, review sheets, grades, and other information of note will be posted. **Be sure to check this page regularly.** If you have your email forwarded to another address, make sure that account can accept emails with large attachments. If you are not receiving emails from me on a regular basis, then your forwarded email is not set up properly.

Exam Information: The exams will be based on the topics in the assigned readings. Questions will not be word-for-word from the text or notes, so understanding the concepts is critical. This not a course in memorizing facts. As a science major, you should be able to synthesize biological concepts, understand how things work together and how they achieve certain goals or endpoints. The format for the exams is generally multiple choice, matching, true/false, labeling pictures/diagrams, etc. This course is designed to follow and complement the book chapters, and some of the lecture material may not be in the text. Therefore, it is essential that you complete the assigned readings when preparing for the exams. There will be four exams taken in this course, each given during lecture times. You will be able to calculate your grade in the class at any time through MOODLE. A photo ID (LSU ID, driver's license, state ID card or passport) is absolutely required for each and every exam. Be sure to bring one form of ID to the exam session for each exam! You will not be allowed to take an exam without proper ID.

Missed Exams: There will be **NO** make-up exams except for university-approved absences, and any un-excused absence from an exam will be scored as a zero. You need to fill out and return to me a "**BIOL 1202 MISSED EXAM FORM**" (located in MOODLE). If you do not fill out and return to me via email (**do NOT place it under my office door**) the BIOL 1001 MISSED EXAM FORM **within 24 hours of missing your exam**, you will have a zero posted for that exam. Arrangements to take the make-up exam must be made with me within 48 hours of missing the exam. If you know that you will miss an exam due to a University Approved Absence, you should make arrangements with me as far in advance as possible BEFORE missing the exam. Make-up exams may be short answer, fill-in-the-blank questions, or a computer exam. Missed exams without a University Approved absence will be considered on an case-by-case basis depending on individual circumstances. Make-up exams offered in these instances without a University Approved absence will be penalized a MINIMUM of 10%, depending on the circumstances.

Quiz & Homework Information: The quizzes and homework assignments (which will be assigned through MOODLE and the MASTERING BIOLOGY website) given throughout the semester will be based on the topics in the assigned readings. Quiz questions and homework assignments are designed to reinforce the material and concepts that are covered in the lecture notes and also get you prepared for the exams. The purpose of the quizzes and homework assignments is two-fold. First, they reinforce the concepts covered in the lecture notes and help you prepare for the exam. Secondly, they are basically a boost to your grade if you make sure to complete them by the assigned date. Quizzes and homework assignments will be posted to MOODLE and/or the MASTERING BIOLOGY website, and you will generally have

several days to complete them. Once the quiz/homework assignment closes out on the due date, answers will become available and scores will post to your grade book. I will NOT extend the due dates.

THERE WILL BE NO MAKE-UP QUIZZES or HOMEWORK OFFERED, EVEN WITH A UNIVERSITY APPROVED ABSENCE SINCE ANSWERS ARE POSTED AFTER THE ASSIGNMENT CLOSES

I will drop 10 % of the lowest quiz/homework scores in calculating your quiz average. You will be required to take 90% of all quizzes/homeworks. For example, if we have a total of 100 quizzes/homework assignments during the semester, you can drop your 10 lowest scores (any combination of Homeworks and Quizzes) in calculating your quiz average. In the case where we had a total of 100 quizzes/homeworks and you only took 89 of them, one of your scores will be a zero which will ultimately lower your quiz average.

Grading Scale: Your grade will consist of two components: 4 exams (weighted equally and based on a perfect score of 100%) and your Mastering Biology cumulative quiz/homework average.

4 EXAMS = 90% of your grade (22.5% for each of the four exams)
Quiz/Homework average = 10% of your grade (lowest 10% dropped)

Score	Grade	Score	Grade	Score	Grade	Score	Grade	Score	Grade
98.0 - 100	A+	88.0 - 89.9	B+	78.0 - 79.9	C+	68.0 - 69.9	D+	0 - 59.9 %	F
92.0 - 97.9	A	82.0 - 87.9	B	72.0 - 77.9	C	62.0 - 67.9	D		
90.0 - 91.9	A–	80.0 - 81.9	B–	70.0 - 71.9	C–	60.0 - 61.9	D–		

Grades will be posted in MOODLE (see above) as soon as possible following the last day that an exam was given. **No extra credit will be offered for this course**, as per departmental regulations. Regular class attendance does have a strong correlation with the grade you receive in this class.

Problems in the Course: If, after studying the notes and text thoroughly, you are still having problems in this class, please send me an email or call me. Don't wait until just before an exam, since you won't have enough time to completely understand the material. Additionally, there is free peer tutoring in biology and chemistry available at the Biology and Chemistry Tutorial Center in 141B Middleton Library. Their hours are generally Monday-Thursday (9:30AM-7:00PM) and Friday (9:30AM -3:00PM) or check out their website for more information (http://cas.lsu.edu/tutorial-centers). Another resource is the Center for Academic Success, located in the basement of Coates Hall (Room B-31). They offer programs, seminars, handouts, and personal consultations for study and note-taking improvements, test-taking strategies, surviving-the-semester hints. Call them (578-2872) or drop by, as they are there to help you!

Tentative Coverage of Material: I have not assigned specific dates to individual chapters. However, we will basically cover the chapters in the order that they appear in the book. Each week I will post which chapters were are covering. Closer to the exam date, I will tell you which chapters will be on the exam. In general, each exam will cover approximately 4-5 chapters from the textbook and will closely follow the information presented in the chapters and my lecture notes. I highly recommend that you use my PowerPoint lecture outlines that I post to MOODLE. They take the MOST IMPORTANT information from each chapter.

SECTIONS	TOPICS COVERED	CHAPTERS
MECHANISMS OF EVOLUTION	Descent With Modification: A Darwinian View of Life; The Evolution of Populations; The Origin of Species; The History of Life on Earth	22-25
THE EVOLUTIONARY HISTORY OF BIOLOGICAL DIVERSITY	Phylogeny and the Tree of Life; Bacteria and Archaea; Protists; Plant Diversity I: How Plants Colonized Land; Plant Diversity II: The Evolution of Seed Plants; Fungi; An Overview of Animal Diversity; An Introduction to Invertebrates; The Origin and Evolution of Vertebrates	26-34
ANIMAL FORM AND FUNCTION	Basic Principles of Animal Form and Function; Animal Nutrition; Circulation and Gas Exchange; The Immune System; Osmoregulation and Excretion; Hormones and the Endocrine System; Animal Reproduction; Animal Development; Neurons, Synapses, and Signaling; Nervous Systems; Sensory and Motor Mechanisms; Animal Behavior	40-51

IMPORTANT DATES *		
DATE	**DAY(s) OF THE**	**WHY IT'S IMPORTANT**
8/26	MON	First day of classes
9/2	**MON**	**Labor Day holiday (no classes)**
9/4	WED	Last day to drop classes without a "W"
9/5	THUR	Last day to add classes
9/19	**THUR**	**EXAM #1 (in lecture)**
10/15	**TUES**	**EXAM #2 (in lecture)**
10/17-18	**THUR-FRI**	**Fall Holiday (no classes)**
10/22	TUES	Mid-semester grades due
11/8	FRI	Final date for resigning from LSU and/or
11/12	**TUES**	**EXAM #3 (in lecture)**
11/27-29	**WED-FRI**	**Thanksgiving Holiday (no classes)**
12/6	FRI	Last day of classes
12/11	**WED**	**EXAM #4 Location TBA, 12:30-2:30 PM**

* Exam dates/coverage are subject to change if necessary; based on University closures or weather events

ATTENDANCE IS CRITICAL TO YOUR SUCCESS IN THIS COURSE!!!