SAMPLE SYLLABUS, OFFICIAL SYLLABUS WILL BE PROVIDED DURING THE COURSE

EAST TENNESSEE STATE UNIVERSITY

College of Arts and Sciences

Department of Biological Sciences

BIOL 1120 - Biological Sciences Majors Lecture II

Instructor Information:
Richard Carter, PhD
Brown Hall 309
carterrt@etsu.edu (preferred method of communication)
Office phone: 439-6929
Office Hours: by appointment, or
just stop by my office anytime

Course Information:
MWF 10:30 – 11:25 AM
Lectures in Brown Hall 112
BIOL 1120 Lecture students must also register for BIOL 1121 Laboratory

I. REQUIRED MATERIALS: The department of Biological Sciences uses a common textbook for BIOL 1110, 1120, and 1130.

Choose from the following options: **Join code - 425298**

A. Campbell Biology in Focus 3e Loose-Leaf Textbook w/ MasteringBiology Access Card. ISBN-13: 978-0134895727, ISBN-10: 013489572X

OR

B. Campbell Biology in Focus 3e (E-Text Only) w/ MasteringBiology Access Card. ISBN-13: 978-0134710679, ISBN-10: 0134710673

C.

AND

C. *Top Hat learning platform, https://tophat.com/students/

*If you previously purchased Top Hat for 4 months (for Bio I), you will need to purchase access again. Contact the instructor immediately if you do not have access to a Wi-Fi enabled mobile device (Smartphone, Tablet, or Laptop) for use during lectures.

II. COURSE DESCRIPTION: (from catalog) Principles of organismal biology, including structure and function of multicellular organisms, especially chordate animals, and flowering plants. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a prerequisite. Three hours lecture and two hours of lab per week. A common grade will be given in BIOL 1120/21.

III. COURSE OBJECTIVES: Over the course of the semester you will be asked to apply scientific thinking and reasoning to uncover and examine the development and physiology of living systems. You will encounter several overarching themes throughout the course, including, but not limited to the following learning outcomes and scientific skills:

Student Learning Outcomes:

- Students will be able to construct and interpret phylogenies to infer patterns of evolution and relationships among organisms.
- Students can compare and contrast major developmental events and processes in a diversity of organisms.
- Students can explain the transfer and transformation of energy and matter within and among levels of biological organization.
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- Students can relate how physical constraints influence biological form and function.
- Students can analyze the relationship of structure and function in organisms and biological processes.
- Students can define how emergent properties relate to different levels of biological organization.
- Students can describe and differentiate the major types of interactions between and among organisms and their environment.

Scientific Skills:

- Understand hypothesis-driven and evidence-based research.
- Identify accurate and reliable sources of information.
- Apply rigorous experimental design and data collection.
- Evaluate scientific results in context of methods or protocols used.
- Construct appropriate and testable hypotheses and derive predictions.
- Use effective representations and visualizations for biological data.
- Articulate methods and knowledge in written and oral forms.
- Interpret data from various sources to develop an appropriate conclusion and recognize knowledge gaps.
- Ability to apply biological research to address societal problems.

IV. COURSE MANAGEMENT:

1. **Workload:** The workload for this course is based on approximately 12-15 hours of work per week on the course (3 hours in lecture, 2 hours in lab, and 7-10 hours of additional work outside of class each week over the course of 15 weeks). ETSU is accredited by the Southern Association of Colleges and Schools (SACS) who regulates the definition and determination of credit hours awarded for verified student achievement.

2. **Attendance:** is expected and will be taken. Chronic absenteeism will result in the loss of in class participation points. **No make-up work or quizzes will be allowed under any circumstances** (see disaster insurance for more details).

3. **Elearn/D2L:** The gradebook will be maintained on D2L.

4. **Homework:** To be completed using Mastering Biology. Homework will be available for a limited time and **must** be completed during that time, no exceptions. Homework assignments are designed to provide extra exposure to topics that are more challenging. Credit for assignments will vary and may be graded for correctness or for participation only.

5. **In-Class Participation**: Throughout the course there will be opportunities to participate in class by answering quiz questions on the top hat learning platform. You will need to participate to earn your in-class participation points. **It is your responsibility to bring a functional Wi-Fi enabled device to class for participation**; failure to bring a fully functional device to class results in forfeiture of any participation points offered that day. If you do not have regular access to a Wi-Fi enabled device (smartphone, laptop, tablet, etc.) contact the instructor immediately. Failure to attend class will also result in forfeiture of any in-class participation points offered that day. Credit for assignments will vary and may be graded for correctness or for participation only.

6. **Exams:** All exams are designed to evaluate the depth of your mastery of the lecture material.

   A. Exam Format: There will be four exams, all administered via the Testing Center over a number of days.

   B. Conflict Exams: As the exams will be available for a few days there will be no make-up exams offered under any circumstances. Contact the instructor immediately if you have a legitimate conflict with an exam.

7. **Late and missed work/quizzes**: ***No late homework will be accepted under any circumstances***. HOWEVER, you will be able to earn back points lost for not completing homework assignments. This overage is what we call **DISASTER INSURANCE.** If you attend SI sessions regularly you will receive extra points that could protect you in the case of a "disaster". You will receive 1 extra point for every SI session you attend. These extra points will be used to **replace** lost homework points due to **not completing** the homework.

8. **Academic Integrity**: Cheating will not be tolerated. Not only is it important that you uphold a high standard of integrity in all that you do but providing a truthful and accurate depiction of your understanding of the material is vital to an instructor's ability to help you succeed in the course. ETSU policy requires that EVERY incident of academic dishonesty – no matter how minor – be reported to the Dean (see ETSU Policy here: http://www.etsu.edu/academicintegrity/default.aspx). All students will be required to sign an Academic Honesty contract affirming their understanding and adherence to all policies. Any student suspected of cheating in any way will be issued an automatic grade of 'F' for the assignment under which the violation occurred. **Any student with a repeated academic integrity violation will be issued an automatic grade of 'F' for the course** – no exceptions, no matter how minor.

V. GRADING SCHEME: Your final grade will be a single grade comprised of lecture (75%) and lab (25%) grades.

1. **Grade Distribution:** The lecture grade will be based upon a combination of homework, in-class participation, and exam scores as follows:

Assignment	*Point Value per Assignment*	*Percent for Course (Assignments will be weighted as follows)*
Exam 1	60 points	40% (All exam points)
Exam 2	100 points	
Exam 3	100 points	
Exam 4 (final)	100 points	
Attendance	Points vary by assignment	5%
In-Class Participation	Points vary by assignment	10%
Homework (10)	Points vary by assignment	20%
		75% Lecture
Laboratory (1121)		25% Lab
		100%

2. **Grading Scale:**

A	92-100%	A-	90 -91%		
B+	88-89%	B	82-87%	B-	80-81%
C+	78-79%	C	72-77%	C-	70-71%
D+	68-69%	D	60-67%	F	0-59%

VI. MISCELLANEOUS

1. **Laboratory Attendance**: Attendance is mandatory. See lab syllabus for more information.

2. **Students with Disabilities and Student-Athletes, etc.**: If you have any disability that requires special accommodation, please notify me during the first week of classes so that I can make whatever arrangements are needed. If you will be off-campus for a university-sanctioned activity that will necessitate your missing class, please see me in my office during the first week of classes to discuss your case. I will do my best to advise you whether it is feasible for you to take this course this semester given your schedule.

3. **Mental Health:** Students often have questions about mental health resources, whether for themselves or a friend or family member. There are many resources available on the ETSU Campus, including: ETSU Counseling Center (423) 439-4841; ETSU Behavioral Health & Wellness Clinic (423) 439-7777; ETSU Community Counseling Clinic: (423) 439-4187.

4. **Many student questions can be answered by consulting resources listed at the following link: ETSU Syllabus Attachment:** https://www.etsu.edu/reg/academics/syllabus.php

This schedule is subject to change

Week	Dates	Lecture Topic	Chapter	Homework	Exams	Lab
1	Aug22-26	Syllabus; Meiosis & Sexual Life Cycles	10			Plant Life Cycles (10)
2	Aug29-Sep2	The Colonization of Land	26	HW1		Leaf Structure and Function (11)
3	Sep5-9	Plant Structure and Growth	28	HW2		Carbon Storage (outdoor) (12)
4	Sep12-16	Resource Acquisition, Nutrition, and Transport in Vascular Plants	29		Exam 1	Plant Diversity (9)
5	Sep19-23	Reproduction and Domestication of Flowering Plants	30	HW3		Microscopy (2) and Animal Development (1)
6	Sep26-30	Plant Responses to Internal and External Signals	31	HW4		Animal Tissues (2)
7	Oct3-7	The Rise of Animal Diversity	27	HW5	Exam 2	**Lab Midterm**
8	Oct10-14	Internal Organization and Regulation of Animals	32			No Lab – Fall Break
9	Oct17-21	Neurons and Nervous Systems	37, 38	HW6		Thermoregulation (3)
10	Oct24-28	Motor Mechanisms	39	HW7		Muscles and Bones (5)
11	Oct31-Nov4	Circulation and Gas Exchange	34	HW8	Exam 3	Intro to Dissection (6)
12	Nov7-11	Immune System	35	HW9		Neurophysiology (4)
13	Nov14-18	Animal Nutrition	33	HW10		Circulation (7)
14	Nov21-25	Animal Nutrition/Reproduction	33/36			NO Lab - Thanksgiving
15	Nov28-Dec2	Reproduction and Development	36			**Lab Final**
16	Dec5-9	Finals week			Exam 4	

Please make sure to sign up via the Testing Center for your exam times AS SOON AS POSSIBLE to get a day and time that will fit your schedule! You must take your student ID with you when taking an exam at the testing center

Aug. 28 Last day to register or add class without departmental permit (last day to register through GoldLink).

Sept. 4 Last day to **add** with a departmental permit (by 4:30 pm Eastern Time).

Sept. 4 Last day to **drop** a course without a 'W' grade (by 4:30 pm Eastern Time).

Sept. 6 Begin late **add** with dean's permission only.

Oct. 10 Last day to drop a course with a 'W' grade without dean's permission.

Nov. 30 Last day to withdraw from the university (including Dean approved late drops) by 4:30 pm Eastern Time.