



BIOLOGY 1114

CRN 20192

Spring 2018
Tentative Syllabus

GENERAL BIOLOGY

CRN 20192: T R 2:00 - 3:50 PM

201 HOH (Howell Hall)

<http://www.metabolism.net/bidlack/>

<http://biology.uco.edu/bidlack/>

Dr. Jim Bidlack

301B HOH (Howell Hall - Office)

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Office Hours: M W 2:00 - 3:50 PM
or by appointment

GENERAL BIOLOGY: This is an introduction to the life sciences as a course to fulfill the general education requirement for non-biology majors. The topics include an introduction to the fundamental principles of biology, the scientific method, cell structure and organization, biological molecules and metabolism, the levels of biological organization and systematics, plant and animal systems, genetics, evolution and ecology. This course does not have an accompanying laboratory session and does not count towards a B.S. degree in Biology.

<u>Date</u>	<u>Lecture topic</u>	<u>Chapter</u>	<u>Pages</u>
January			
9 T	Introduction, unity and diversity of life	1,7	2-5,12-15,174-177
11 R	Scientific method, chemistry	1,2	6-7,16-27
16 T	Chemistry, biological molecules	2	16-27,30-39
18 R	Biological molecules	2	30-39
23 T	Cell structure, enzymes	2,3,4	42-43,44-57,58-61
25 R	Enzymes, photosynthesis	2,4	42-43,60-63,64-69
30 T	Photosynthesis, respiration	4	64-69,70-77
February			
1 R	Additional exam material, molecular biology	6	112-119
6 T	EXAM I , molecular biology	6	112-119,148-149
8 R	Protein synthesis, genetic control	6	118-137
13 T	Genetic engineering	6	138-151
15 R	Mitosis and meiosis	5	78-93
20 T	Mendelian and population genetics	5	94-113
22 R	Additional exam material, evolution	7	156-163
27 T	EXAM II , evolution	1,7,8	14-15,164-173, 176-179,192-193
March			
1 R	Viruses, monerans, protistans, fungi, plants	8,9	180-193,194-199, 200-203,204-205

<u>Date</u>	<u>Lecture topic</u>	<u>Chapter</u>	<u>Pages</u>
March (continued)			
6 T	Plant morphology and anatomy	9	206-225 Class Project
8 R	Plant nutrition and transport	9	214-215
13 T	Additional exam material, animal diversity	10	226-245
15 R	EXAM III , animal diversity	10	226-245
20 T	Spring Break		
22 R	Spring Break		
27 T	Human evolution, tissues, systems	10,11	246-247,248-253
29 R	Nervous and endocrine systems	11	274-275,284-287
April			
3 T	Circulation, immunity, respiration	11	262-263,264-269, 270-273
5 R	Respiration, digestion, reproduction	11	254-261,262-263, 280-283
10 T	Human reproduction and development	11	280-283
12 R	EXAM IV , population ecology	7,12	162-167,294-305
17 T	Community interactions, ecosystems	12	306-315,320-325
19 R	Biosphere, human impact	7,12	168-169,316-319, 326-331
24 T	Animal and social behavior	7	164-165,170-171
26 R	Additional exam material		lecture notes
May			
3 R	FINAL EXAMINATION		

The Final Exam is scheduled for Thursday, 3 May 2018 at 1:00 - 2:50 PM. It will be approximately 1/2 comprehensive and 1/2 new material. *Note that the final exam is scheduled for the second to last day during finals week. What a great opportunity to study!*

The Central Six

At the University of Central Oklahoma, we are guided by the mission of helping students learn by providing transformative experiences so that they may become productive, creative, ethical and engaged citizens and leaders contributing to the intellectual, cultural, economic and social advancement of the communities they serve. Transformative learning is a holistic process that places students at the center of their own active and reflective learning experiences. A student's major field is central to the learning experience and is a vital part of the "Central Six." All students will be transformed with [Discipline Knowledge](#), [Leadership](#), [Problem Solving \(Research, Scholarly and Creative Activities\)](#), [Service Learning and Civic Engagement](#), [Global and Cultural Competencies](#), and [Health and Wellness](#).

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Office: M W 2:00 - 3:50 PM, 301B Howell Hall

Avoid Scheduling Office Visits Just Before Class

Textbook: Simon, Eric J. 2017. *Biology: The Core*. 2nd Edition. Pearson Education, Inc., San Francisco, California, USA.

Attendance: Students are expected to attend, learn, and take notes in all classes. At least three hours of study time should be devoted to each hour of class before and/or after lecture.

Grading: An approximate breakdown of points for the course is as follows:

4 lecture exams @ 100 points each	400
1 final exam @ 200 points	200
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TOTAL POSSIBLE POINTS	600

Grading scale	Grade	Points needed
90 - 100% of total possible points	A	540
80 - 89% of total possible points	B	480
70 - 79% of total possible points	C	420
60 - 69% of total possible points	D	360
Below 60% of total possible points	F	-

Exam material: At least half of the exam material will come directly from lecture. Other questions may come from readings in the text, end-of-the-chapter questions, or combinations thereof. For best performance, read the assigned text before attending lecture and review lecture notes after each class. Study your notes carefully and review the major topics provided in the text prior to each exam. Sample exams are available at <http://metabolism.net/bidlack/biology/> and on reserve in the Max Chambers Library. These sample exams should be used as a study guide and not as the sole source for exam preparation.

Exams: Cellular, mobile, and other electronic devices that allow Internet access, or any other communication, must be turned off during exams. All exams will consist mostly of multiple-choice, matching, true-false, short answer, and short essay questions, unless specified otherwise. All exams count in determining the final grade. Make-up exams will be given only in *extenuating* circumstances and will usually consist of long essay questions. **WRITTEN DOCUMENTATION FROM YOUR PHYSICIAN OR UNIVERSITY OFFICIAL MUST BE PROVIDED TO BE CONSIDERED FOR A MAKE-UP EXAM.**

Cheating: All work should be that of the student alone. No communication, notes, or wireless devices are permitted during any exam. If the instructor determines that a student has cheated on an exam or any assignment, the student will receive no credit for that exam or assignment and the student's name will be reported to the proper authorities.

For additional student information that accompanies this syllabus, go to the link on the Internet at:

<http://www.uco.edu/academic-affairs/files/aa-forms/StudentInfoSheet.pdf>