

BIOL 1620: Biology II

Utah State University Eastern

Spring 2018 - 3 credits

Lecture: MWR 8:30-9:20, Reeves 231

Instructor: Dr. Wayne Hatch, Reeves 251

Office Hours: R 10-12pm, F 1-4, and by appointment

Contact: wayne.hatch@usu.edu, 613-5393

Catalog description:

Animal structure, function, and development; principles of evolution, ecology, and behavior. Three lectures and one lab.

This course is designed to encourage the student to:

- Become competent in the nature of science
- Explain principles of evolution
- Identify evolutionary relationships among species
- Describe the diversity of life among single-celled organisms
- Explain variety among animal structure, function, development
- Explain the principles of ecology

Course design:

As described in the course catalog this course consists of three lecture periods and one lab period each week. The lecture periods will consist of lectures, discussions and other activities designed to encourage student learning of the objectives listed above. More specific learning objectives for each chapter of the text will be posted on Canvas. The objectives consist of terms to define, ideas to explain, and ideas to debate. It is expected that students will study the objectives and the chapter ahead of class so that they can be prepared to ask questions and form about of scientific ideas. Helping students understand these objectives will constitute the focus of each lecture period. The lab period will include hands-on experiences designed to either provide real world examples of what is discussed in lecture and/or to provide opportunities for the student to develop and test hypotheses.

Pre-requisites:

BIOL 1610

Textbook:

Biology: How Life Works; Morris, J. 2013. ISBN-13: 978-1429218702

Assessments:

Quizzes: Quizzes worth 5 points each will be administered in class every Thursday. They will consist of short answer or multiple choice questions about material discussed that week. Missed quizzes will not be made up, but the lowest two scores will be dropped.

Exams: Six written tests consisting of 100pts each will be given throughout the semester. Each test will cover one section of material from the text, specifically the material in the learning objectives for each chapter of the text posted on Canvas. These exams will be given in the testing center. There will not be a comprehensive final exam but a final exam will be a test of understanding of the final section of the text. Exams will open on the day posted on the schedule, but will be available for at least two days in the testing center.

Grading:

Final grades will be given according to the student's final percentage of all graded assignments and exams with the following breakdown.

A = 93-100% B+ = 87-89% C+ = 77-79% D+ = 67-69%
A- = 90-92% B = 83-86% C = 73-76% D = 60-66%
B- = 80-82% C- = 72-70% F = below 60%

- 14 Quizzes, dropping lowest 2 = 60pts
- 6 exams = 600pts
- Total** ~ 665pts

Expectations of Students:

I expect that as a student you will come to class ready to participate in each discussion or lecture as appropriate. This means accessing the learning objectives posted on Canvas, reading the chapter before class and taking notes about the objectives. This will prepare the student to come to class ready to be engaged in the material and feel more comfortable discussing it with the class. I also expect that you will avoid disrupting the class in general as well as those immediately surrounding you during lecture. Many actions such as texting may seem to only affect yourself but generally also annoy and discourage the learning of the students around you.

Policies on attendance and make-up work:

Generally, students who attend class regularly and are attentive perform better in the class. Specifics about assignments, changes in the schedule/assignments/exams will typically only be announced in class.

Canvas:

Canvas is where course content, grades, and communication will reside

<http://canvas.usu.edu>

Your username is your A# and your password is your global password. For Canvas, passwords, or any other computer-related technical support contact the IT Service desk. (435)797-4357. <http://it.usu.edu>

Academic Dishonesty:

Cheating and/or plagiarism are illegal and will not be tolerated. If a student is found guilty, the student may immediately fail the course and possible expulsion from the college. Any suspicion of an academic integrity violation (AIV) may be reported by the instructor to the university. As stated in student code Section VI-1 “Whenever an instructor reasonably suspects that a student has committed an academic integrity violation, the accused student shall be notified by the instructor of the violation and its consequences through use of the academic integrity violation form (AIVF) within seven days that a violation has occurred and that a sanction is appropriate.”

ADA Services:

If a student has a disability that qualifies under the Americans with Disabilities Act (ADA) and requires reasonable accommodation, that student should contact the Disability Resource Center for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, sensory, emotional, physical, or medical impairments. Students may contact the DRC if they are not certain whether a condition qualifies. Regional campus students may contact the DRC located in Room 1010 of the University Inn, 435-797-2444 (voice), 435-797-0740 (TTY) or toll free at 800-259-2966. USU Eastern students may contact the DRC located in room 223 of the JLSC, 435-613-5337. Please contact the DRC as early in the semester as possible.

USU Eastern Students may also schedule a therapy appointment with an on campus therapist by contacting the DRC at 435-613-5337.

Course Schedule: This schedule is an estimate of what will be discussed each day. Open days will be used to give more time to material in chapters around the open day as needed.

Week	Monday	Wednesday	Thursday
<i>Jan 8-12</i>	Introductions	Ch. 25 Cycling Carbon	
<i>Jan 15-19</i>	<i>Martin Luther King Jr. Day (No class)</i>	Ch. 26 Bacteria and Archaea	
<i>Jan 22-26</i>	Ch. 27 Eukaryotic Cells	Ch. 28 Being Multicellular	
<i>Jan 29-Feb 2</i>	Test 1	Ch. 29: Plant Structure and Function	
<i>Feb 5-9</i>	Ch. 30: Plant Reproduction	Ch. 31: Plant Growth and Development	
<i>Feb 12-16</i>	Ch. 32: Plant Defense	Ch. 33: Plant Diversity	
<i>Feb 19-23</i>	<i>President's Day - Class on Tuesday</i> Test 2	Ch. 34 Fungi	Ch. 35 Animal Nervous Systems
<i>Feb 26-Mar 2</i>	Ch. 36 Animal Sensory Systems and Brain Functions	Ch. 37 Animal Movement	
<i>Mar 5-9</i>	<i>Spring Break (No class all week)</i>		
<i>Mar 12-16</i>	Test 3	Ch. 38 Animal Endocrine Systems	
<i>Mar 19-23</i>	Ch. 39 Animal Cardiovascular and Respiratory Systems	Ch. 40 Animal Metabolism and Digestion	
<i>Mar 26-30</i>	Ch. 41 Animal Renal Systems		
<i>Apr 2-6</i>	Test 4	Ch. 42 Animal Reproduction and Development	

<i>Apr 9-13</i>	Ch. 43 Animal Immune Systems	Ch. 44 Animal Diversity	
<i>Apr 16-20</i>	Test 5	Ch. 45 Animal Behavior	Ch. 46 Population Ecology
<i>Apr 23-27</i>	Ch. 47 Species Interactions, Communities, and Ecosystems	Ch. 48 The Anthropocene	
<i>Apr 30-May 4</i>	Final exam - in testing center all week		

Disclaimer: The schedule and assignments as part of this syllabus are tentative and subject to change.