BIOl 1620: Biology II
Utah State University Eastern
Spring 2020 - 3 credits

Lecture: MWR 8:30-9:20, Reeves 186
Instructor: Dr. Wayne Hatch, Reeves 264
Office Hours: R 10-12pm, F 1-4, and by appointment
Contact: wayne.hatch@usu.edu, 613-5393

Course description:
Animal structure, function, and development; plant structure, function, diversity; single-cell diversity; ecology, and behavior.

This course is designed to encourage the student to:
- Describe the diversity of life among single-celled organisms
- Describe the evolution of single-celled organisms to multi-celled organisms
- Explain the anatomy, physiology, and diversity of plants
- 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 with Biol 1625 fulfills the lab portion of this course and meets once a week. Class periods will consist of lectures, discussions and other activities designed to encourage student learning of the objectives listed above. Specific learning objectives for each chapter of the text are posted on Canvas. These objectives consist of terms to define and concepts to explain. To succeed in this course, students will master the learning objectives and display that mastery through exams and quizzes. 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 gain a better understanding about foundational biological concepts. Helping students understand these objectives will constitute the focus of each lecture period.

Pre-requisites:
BIOL 1610

Textbook:

Assessments:
Quizzes: Quizzes worth 5 points each will be administered in Canvas for every chapter of the text. These will consist of multiple choice questions about material discussed in class. Quizzes will need to be completed by the due date listed in Canvas.
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 final exam will be test understanding of the final section of the text. Exams will open on the day posted on the schedule below, but will be available for at least two days in the testing center.

-2nd chance exams: If a student receives an undesirable exam score, they will have the opportunity to show mastery of material a second time. These exams will consist completely of short answer questions from the learning objectives.

Extra Assignments:
Biology Seminars – Three biology seminars or their equivalent may be attended and a written summary can be turned in for 5 points each for extra credit during the semester. Details for this assignment will be given in Canvas.
Course Evaluation – The final course evaluation may be completed at the end of the semester for 5 points.

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

\[
\begin{align*}
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 & = \text{below 60}\%
\end{align*}
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- 25 Quizzes, dropping lowest 5 = 100pts
- 6 exams = 600pts
Total ~ 700pts

Classroom Structure:
Students should 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.
Students will avoid disrupting the class in general as well 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.

OneNote: During class, the program OneNote will be used by Dr. Hatch to present material and provide notes. Students may access this through Canvas and clicking on Class Notebook or by signing in directly with the OneNote program on their electronic device. To login students must put their a#@aggies.usu.edu. Doing so will direct them to the USU
login page where they will again put in a#@aggies.usu.edu along with their USU password.

*Class Recording:* Each class period will be recorded using the software Kaltura. This will then be uploaded to Canvas and found in the Media Gallery section in Canvas.

**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](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](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.

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<thead>
<tr>
<th>Week</th>
<th>Monday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td>Jan 6-10</td>
<td>Introductions</td>
<td>Ch. 24 Bacteria and Archaea</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Notes</td>
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<tr>
<td>Jan 13-17</td>
<td>Ch. 25 Eukaryotic Cells</td>
<td>Ch. 26 Being Multicellular</td>
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<td>Jan 20-24</td>
<td>Martin Luther King Jr. Day - No Class</td>
<td>Exam 1</td>
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<td>Jan 27-31</td>
<td>Ch. 27 Plant Form, Function, and Evolutionary History</td>
<td>Ch. 28: Plant Reproduction</td>
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<td>Feb 3-7</td>
<td>Ch. 29: Plant Growth and Development</td>
<td>Ch. 30: Plant Defense</td>
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<td>Feb 10-14</td>
<td>Ch. 31: Plant Diversity</td>
<td>Exam 2</td>
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<td>Feb 17-21</td>
<td>President’s Day – No Class</td>
<td>Ch. 32 Fungi</td>
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<td>Feb 24-28</td>
<td>Ch. 34 Animal Nervous Systems</td>
<td>Ch. 35 Animal Movement: Muscles and Skeletons</td>
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<td>Mar 2-6</td>
<td>Spring Break (No class all week)</td>
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<td>Mar 9-13</td>
<td>Exam 3</td>
<td>Ch. 36 Animal Endocrine Systems</td>
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<td>Mar 16-20</td>
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<td>Ch. 38 Animal Metabolism, Nutrition and Digestion</td>
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<td>Mar 23-27</td>
<td>Ch. 39 Animal Renal Systems</td>
<td>Exam 4</td>
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<td>Mar 30-Apr 3</td>
<td>Ch. 41 Animal Immune Systems</td>
<td>Ch. 42 Animal Diversity</td>
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<td>Apr 6-10</td>
<td>Exam 5</td>
<td>Ch. 43 Behavior and Behavioral Ecology</td>
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<td>Apr 13-17</td>
<td>Ch. 45 Species Interactions, Communities</td>
<td>Ch. 46 Ecosystem Ecology</td>
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<td>Apr 20-24</td>
<td>Ch. 48 The Anthropocene</td>
<td>Interim Day – No Class</td>
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<td>Apr 27-Apr 30</td>
<td>Exam 6</td>
<td>Exam 6</td>
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Disclaimer: The schedule and assignments as part of this syllabus are tentative and subject to change.