Class Meeting:
Monday 6:00-8:50pm, CAV 111

Course Coordinator:
Dr. Loren Ammerman
CAV003B, 486-6643
loren.ammerman@angelo.edu

Course Description
Advanced Biology is a required review course for all biology graduate students; each biology graduate student must pass this course to be eligible for graduation with a master’s degree. The basic principles of biology will be reviewed through questions provided by biology graduate faculty members over readings assigned from Campbell Biology. Students must be able to demonstrate a master’s level comprehension of the topics addressed in the questions.

Student Learning Outcomes
1. Gain factual knowledge, including terminology, classifications, methods, and trends
2. Learn fundamental principles, generalizations, or theories
3. Apply knowledge to critically answer essay questions

Text

Course Format
This course is designed to assess your understanding of biology. A list of questions/topics from biology graduate faculty members are posted on Blackboard. The questions/topics require an answer that is approximately one hand-written page in length. Each week, one or two members of the graduate faculty will be available to either answer questions or lecture on their subject material for the course. Prior to each meeting, you are expected to have read the chapters assigned by the attending faculty member and assessed both your understanding of the information presented and your ability to answer the questions provided. Meeting with faculty members provides you an invaluable opportunity to ask questions, enhance your understanding, evaluate your preparedness, and maintain a schedule of study that will allow you to be prepared for the exam.

Examination
An examination will be given on Monday, November 19, 2018 at 6pm; three hours will be allotted for the exam. The exam will consist of 10-15 questions that are randomly selected from the question pool. Each major topic will have 1-3 questions on the comprehensive exam.

A second examination will be given Monday, December 10th from 6:00-9:00pm for students who failed the first exam (<70%) and for students who wish to try to improve their score. This second examination will consist of a different set of randomly selected questions from the question pool.

The grade for each examination will be calculated by averaging question scores (each on a 100 point scale).
Course Grade
A grade of 70% or better is required to pass the course. The course grade awarded will be the percentage score obtained on the comprehensive examination and the following conditions.
- First exam grade ≥ 70%:
  - Skip the 2nd exam: Course grade is the examination grade
  - Take the 2nd exam: Course grade is the higher of the two examination grades
- First exam grade < 70%:
  - If the 2nd exam grade ≥ 70%: Course grade is the examination grade.
  - If the 2nd exam grade <70%: Course grade is an F

Letter grades will be given as follows: A (100-90%), B (89-80%), C (79-70%), and F (<70%). Grades will be rounded up with a 0.5, and down with a 0.4 or lower.

A student who fails the course must enroll in Bio. 6302 the next semester it is offered. A student who fails the course two times will be dismissed from the biology graduate program.

Re-grade Procedure
Any student that would like a graded question to be re-evaluated should write out the justification for the question to be re-graded and submit to the course coordinator. The exam page and the justification will be returned to the appropriate professor for their consideration and final decision regarding the grade that the student should receive on that question. You are welcome to make an appointment with the appropriate professor to discuss your answer, but the re-grade process should initiate with the course coordinator (Ammerman).

Religious Holy Day
A student who intends to observe a religious holy day during the semester should make that intention known in writing to the instructor during the first week of the semester and one week prior to the absence. If this submission is completed, a student who is absent from classes for the observance of a religious holy day shall be allowed to take missed exams or assignments scheduled for that day in accordance with syllabus policy.

Honesty
Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, available in the Student Handbook (http://www.angelo.edu/student-handbook/). Any form of cheating or plagiarism in this course will result in a zero on the assignment or exam for all involved. Working with others is encouraged, but each person is responsible for their own work. Allowing others access to your work potentially involves you in cheating. If you have any question about what constitutes plagiarism or cheating, please contact the course coordinator.

Special Accommodations
If any member of the class feels that he/she has a disability and needs special accommodations please contact the Student Affairs Office, Houston Harte University Center, Suite 112, 942-2047 or studentservices@angelo.edu.

Schedule
Faculty members are available to answer questions during both the scheduled times listed below and at other times by appointment.
## Advanced Biology Assignments and Scheduled Meetings – 2018

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Faculty</th>
<th>Chapter in text*</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 Aug</td>
<td>Scientific Method</td>
<td>Dixon</td>
<td>1</td>
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<tr>
<td>3 Sept</td>
<td>Labor Day holiday</td>
<td>No class</td>
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<tr>
<td>10 Sept</td>
<td>Chemistry/Cells</td>
<td>Ammerman</td>
<td>2-11, 16</td>
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<td>17 Sept</td>
<td>Cell Cycle/Gene Expression</td>
<td>Krukonis</td>
<td>12, 13, 17, 18</td>
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<td>24 Sept</td>
<td>Genetics/Microbiology/Immunology</td>
<td>Jones</td>
<td>14, 15, 19, 27, 43</td>
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<td>1 Oct</td>
<td>Evolution/Vertebrate Diversity/Behavior</td>
<td>Dowler, Skipper</td>
<td>22-26, 34, 51</td>
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<td>8 Oct</td>
<td>Diversity of Protists/Plants/Fungi</td>
<td>Amos</td>
<td>28-31</td>
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<tr>
<td>15 Oct</td>
<td>Plant Form and Function</td>
<td>Amos</td>
<td>35-39</td>
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<tr>
<td>22 Oct</td>
<td>Animal Form and Function/Genomics</td>
<td>Heimann, Fohn</td>
<td>40-42, 44, 45-50, 21</td>
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<td>29 Oct</td>
<td>Invertebrate Diversity</td>
<td>Streth</td>
<td>32-33</td>
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<td>5 Nov</td>
<td>Ecology/Conservation</td>
<td>Negovetich</td>
<td>52-56</td>
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<tr>
<td>19 Nov</td>
<td><strong>EXAMINATION #1: Monday, Nov. 19, 6-9 pm</strong></td>
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<tr>
<td>26 Nov</td>
<td>Receive exam scores</td>
<td>Ammerman</td>
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<td>3 Dec</td>
<td>Review</td>
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<td>10 Dec</td>
<td><strong>EXAMINATION #2: Monday, Dec. 10, 6 pm</strong></td>
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* Campbell, 10th edition