Objectives and Nature of the Course
This course introduces the integration between structure and function of biological organization. You will be asked to use processes of science to apply principles of biological change, biological chemistry, energetics and homeostasis, cell structure and function, gene expression, and patterns of inheritance in living systems. You will also be asked to use processes of science to apply principles of genetics, diversity, and ecology to living systems. Observation, experimentation, and investigation are emphasized. Biology 1406 & 1407 require a conceptual understanding of the material rather than the simple memorization and regurgitation of facts. This course will challenge you to analyze and apply information, solve problems, and make connections different from the context in which they were learned. These are critical skills in biology. Laboratory exercises are incorporated into each of the topics covered. There will be only one grade reported for the semester which represents both the lecture and lab portions combined.

Textbook
Biology, 10th ed., Campbell, Neil A.
You will be provided with your own unique online access to the textbook. This can be accessed at https://www.masteringbiology.com/site/login.html
Username: StudentID#@burnetcisd.net
Password: use your school network password
Should you need a textbook for use at home, please contact Mr Chafin at rchafin@burnetcisd.net or 756-6193 ext 2430

Lab Fee (DC enrollment only)
For all students enrolled in Dual Credit, there is a $25 lab fee for this course for each semester. The lab fee for the fall semester must be paid NO LATER THAN noon Friday, Aug 25. If this not paid on time, you will be dropped from dual credit. Should this occur, it will be your responsibility to contact ASU and drop the course.

Materials (AP enrollment only)
For all students enrolled AP, you will need to bring one of the following items for the classroom: Hand sanitizer such as Purell or GermX; full size box of tissues; nitrile exam gloves (no latex please)

Attendance
You will be required to meet the attendance policies of BHS. You are responsible for all work missed due to absence, regardless of reason. If you are scheduled to be absent from class for a school
related activity or otherwise know in advance that you will be absent, you must **make arrangements in advance** to make up what will be missed. Failure to do so could result in receiving a zero for assignments missed. Remember, **it is your responsibility to make arrangements to make up any and all work missed**.

Grading and Assessment

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<thead>
<tr>
<th></th>
<th>BHS grade</th>
<th>ASU grade</th>
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<tbody>
<tr>
<td>Major</td>
<td>70%</td>
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<tr>
<td>Daily/Quiz</td>
<td>30%</td>
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<tr>
<td>90 – 100</td>
<td>A</td>
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<td>80 – 89</td>
<td>B</td>
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<td>70 – 79</td>
<td>C</td>
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<td>60 – 69</td>
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<tr>
<td>0 – 59</td>
<td>F</td>
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Angelo State University credit is awarded upon completion of each semester. You will receive one grade for both the lecture and lab sections for a total of four hours credit each semester. There will be no **extra credit** offered in this course. Late work will not be accepted. There will be a comprehensive final exam each semester.

Cell Phones

Cell phones and other electronic devices will be allowed in the classroom at the discretion of the teacher and for **academic use only**. All other use will result in the device being taken up and turned in to the assistant principal’s office according to the policies stated in the student code of conduct.

Parent Communication

Please allow 24 hours for any response to email correspondence from the teacher. Understandably, parents/guardians are often anxious to speak with a teacher about their child’s progress in a class, and therefore might expect an immediate response to email correspondence about their child. However, please keep in mind faculty members are busy instructing students throughout the day, and it is likely any response to email correspondence about your child’s progress in class may not always occur as quickly as the parent would like. Thank you for your patience in this matter.

Study Time

Your ultimate success in this or any other course depends upon your level of commitment to study and preparation. It will be assumed by the instructor that you have previously read the appropriate textbook chapter or lab prior to your arrival to class. This will help by opening the door to where you are headed. It will also be assumed that you spend time after class, before the next meeting, in reviewing material previously covered. This will help by allowing you to reflect on where you have been.

This preparation is essential for you to gain a better grasp of the material in a timely manner. Time spent in study and preparation along the way helps to ensure that you more effectively learn the material. It also saves time and wasted effort in ‘cramming’ at the last minute. Generally, the more comfortable you are with the material prior to taking an exam, the more relaxed you will be and the better you will perform.
Academic Dishonesty

Academic misconduct includes cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, violations of published professional ethics/standards, and any act or attempted act designed to give unfair academic advantage to oneself or another student. All occurrences of academic dishonesty are disciplinary matters and will be referred to the appropriate campus administrator and Angelo State. All occurrences of academic dishonesty will also result in the grade for the work in question to be assigned a zero.

Course Outline

1st 6 weeks
- Ch 2, 3, 4, 5 – Chemistry of Life
- Ch 6, 7 – The Cell
2nd 6 weeks
- Ch 8, 9, 10 – Metabolism and Energy Transformation
- Ch 11, 12 – Fundamental Cellular Processes
3rd 6 weeks
- Ch 13, 17, 20 – Advanced Cellular Processes
- Ch 14, 15, 16, 17 – Genetics

Fall Final Exam

4th 6 weeks
- Ch 22, 23 – Mechanism of Change
5th 6 weeks
- Ch 26, 27, 28, 31 – Simple Organisms
- Ch 29, 30, 33, 24 – Advanced Organisms
6th 6 weeks
- Ch 52, 53, 55 - Ecology

Spring Final Exam