INSTRUCTOR: Dr. Robert C. Dowler
OFFICE: CAV 020
TELEPHONE: 325/486-6639
E-MAIL: robert.dowler@angelo.edu
OFFICE HOURS: MWF 9-10; TTh 10-11; or by appointment. Any modifications will be posted on my office door.

TEXTBOOKS: Jon C. Herron and Scott Freeman. 2014. Evolutionary Analysis, 5th ed. Prentice Hall, Upper Saddle River, New Jersey. NOTE–This text has a website (http://pearsonhighered.com/herron) that includes study questions and other materials.


OTHER REQUIRED MATERIAL:
We will be using Top Hat Pro (www.tophat.com) for class participation. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message. You can visit the Top Hat Overview (https://success.tophat.com/s/article/Student-Getting-Started-with-Top-Hat) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system. An email invitation will be sent to you by email. Note: our Course Join Code is 595566.

Top Hat Pro may require a paid subscription, and a full breakdown of all subscription options available can be found here: www.tophat.com/pricing.

Should you require assistance with Top Hat Pro at any time please contact their Support Team directly by way of email (support@tophat.com), the in app support button, or by calling 1-888-663-5491. Top Hat will be used to take attendance, present class material, and administer quizzes.

PREREQUISITES: Biology 3301, Genetics, or another course in general genetics.

STUDENT LEARNING OUTCOMES: The primary goal of this course is to give an overview of evolutionary theory and to demonstrate the fundamental nature of evolution to the science of biology. This will be achieved, in part, through the presentation of current research topics in evolution. Students successfully completing this course should have a broad understanding of evolutionary theory, including the history of evolutionary thought, natural selection, sexual selection, the causes of evolution, the significance of Hardy-Weinberg equilibrium, the process of speciation, and human evolution. Overall, students should finish this course with an appreciation for the importance of an evolutionary view in the study of biology.

METHODS OF ASSESSING STUDENT LEARNING OUTCOMES: Knowledge of student learning Outcomes will be assessed as multiple choice, matching, or discussion questions on examinations.

TENTATIVE LECTURE SCHEDULE

<table>
<thead>
<tr>
<th>WEEK</th>
<th>LECTURE TOPIC</th>
<th>TEXT CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG 17</td>
<td>Introduction; Science, religion, &amp; evolution.</td>
<td>1, 2 (part)</td>
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<tr>
<td>AUG 24</td>
<td>History of evolutionary thought (Quiz 1– Perimeter of Ignorance –8/27)</td>
<td>2 (part)</td>
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<tr>
<td>AUG 31</td>
<td>Darwin, the Modern Synthesis and evidences of evolution</td>
<td>2</td>
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<tr>
<td></td>
<td>(Quiz 2— A Case for Evolutionary Thinking-Ch. 1 – 9/3)</td>
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<tr>
<td>SEP 7</td>
<td>Darwin/evidences of evolution (cont.)</td>
<td>2, 3</td>
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<tr>
<td></td>
<td>(Quiz 3 – Ch. 2 Pattern of Evolution 9/10)</td>
<td></td>
</tr>
<tr>
<td>SEP 14</td>
<td>Natural selection and adaptation (Quiz 4 – Ch. 3 Natural Selection- 9/17)</td>
<td>3, 9 (only 9.6)</td>
</tr>
<tr>
<td>SEP 21</td>
<td>Mechanisms of evolutionary change-mutation (EXAM 1 – 9/24)</td>
<td>5</td>
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<tr>
<td>SEP 28</td>
<td>Mendelian genetics &amp; Hardy Weinberg equilibrium (Quiz 5 - Ch. 14 – 10/1)</td>
<td>6</td>
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<tr>
<td>OCT 5</td>
<td>Genetic drift, migration, nonrandom breeding</td>
<td>7 (part)</td>
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<td>(QUIZ 6 – YIF Ch. 1-4 – 10/8)</td>
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<tr>
<td>OCT 12</td>
<td>Species concepts &amp; mechanisms of speciation (Quiz 7- YIF Ch. 5 - 7 – 10/15)</td>
<td>16</td>
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POLICIES AND PROCEDURES

ATTENDANCE: Attendance in class is expected and daily attendance records will be kept for administrative purposes. Because lectures emphasize the material covered on exams, those students that miss classes usually do worse on exams and in the course than those students who attend all classes.

GENETICS PREREQUISITE: This course has a prerequisite of Biology 3301, Genetics. I expect you to have a background in genetics sufficient to apply genetic principles to understand evolutionary processes. We will not review basic genetics in this course.

STATEMENT FOR SYNCHRONOUS REMOTE SESSIONS
To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

How Does It Work?
This course is in a classroom (CAV 200) large enough to maintain social distancing during lectures. For those attending remotely, the lecture will be live on Collaborate in Blackboard and will also be recorded for any student to review at a later time.

Please refer to this Health and Safety web page for updated information about campus guidelines as they relate to the COVID-19 pandemic.

GRADING: The course grade will be based on three exams and grades on class assignments, in-class quizzes, and weekly chapter quizzes.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
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<tbody>
<tr>
<td>EXAM I</td>
<td>100</td>
</tr>
<tr>
<td>EXAM II</td>
<td>150</td>
</tr>
<tr>
<td>CHAPTER QUIZZES</td>
<td>150</td>
</tr>
<tr>
<td>COMPREHENSIVE FINAL EXAM</td>
<td>200</td>
</tr>
<tr>
<td>TOTAL POINTS POSSIBLE</td>
<td>600</td>
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A = 540 - 600    B = 480 - 539    C = 420 - 479    D = 360 - 419    F = BELOW 360

CHAPTER QUIZZES/IN-CLASS EXERCISES: Eleven 15-point quizzes over chapter readings in the text and Your Inner Fish will be given during the semester. The lowest quiz grade will be dropped. In-class group or individual exercises or take-home problems will be assigned irregularly through the semester for a total of 50 points.

CELL PHONE USE IN CLASS: Use of cell phones for texting or social media is not permitted during class periods. If you text in class, you will be asked to leave.

MAKE-UP EXAMS: Make-up exams will be given only in emergency situations which preclude class attendance. Arrangements for excused make-up exams should be made prior to the scheduled date of the exam, unless it is a health emergency, in which case you should contact me by the first class following the absence.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES
ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be
excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
dallas.swafford@angelo.edu  
Houston Harte University Center, Room 112

INCOMPLETE GRADE POLICY  
It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

STUDENT ABSENCE FOR OBSERVATION OF RELIGIOUS HOLY DAYS  
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

TITLE IX AT ANGELO STATE UNIVERSITY  
The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.  
Director of Title IX Compliance/Title IX Coordinator  
Mayer Administration Building, Room 210  
325-942-2022  
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

REQUIRED USE OF MASKS/FACIAL COVERINGS BY STUDENTS  
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class
are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

ACADEMIC 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, which is contained in both print and web versions of the Student Handbook. The University may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is submitted, plagiarism, and collusion. University policy on this issue is discussed in article 5.3 of the Student Handbook. My policy for cheating on an exam is to give a grade of zero on the exam and to provide your name and details of the incident to the department head. You should understand that your loss of credibility on any future (or past) work is the worst penalty for cheating on an exam.

All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook
- Angelo State University Catalog

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a. https://blackboard.angelo.edu/
c. https://www.angelo.edu/services/disability-services/
d. https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
e. https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
g. https://www.angelo.edu/student-handbook/
h. https://www.angelo.edu/catalogs/