Instructor: Robert C. Dowler
Email: robert.dowler@angelo.edu
Phone: 325-486-6639
Office: 020 Cavness Science

Office Hours: Monday-Wednesday-Friday 10:00-11:30 or by appointment.

Course Information

Course Description
This course is an overview of the history of evolutionary thought and the principles of modern evolutionary biology.

Prerequisite and Co-requisite Courses
Credit for a course in genetics is a prerequisite. Students enrolled in genetics during the same semester may request permission to take the course.

Prerequisite Skills
Accessing Internet websites, using ASU Library resources, and using Blackboard.

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. Students will be able to recall the phylum level diversity of the Kingdom Animalia and identify typical members of the major phyla and their anatomy.
Course Delivery
This is a face-to-face course with learning resources and supplemental materials posted in Blackboard.

Required Texts and Materials


Top Hat: Attendance and short reading tests will be given using Top Hat software/application product. Top Hat requires everyone to have a smartphone, tablet, or laptop with them in class.

Technology Requirements
To successfully complete this course, students need to purchase a subscription to Top Hat. When enrolling for Top Hat, please use your university e-mail address.

Communication
Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

Written communication via email: All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Grading

Evaluation and Grades
The course grade will be based on a combined total of 600 possible points as follows. Exam 1-100 points, Exam 2-150 points, and the comprehensive final exam is 200 points each. Eleven short reading tests over book chapters will be worth 15 points each with the lowest one dropped for a combined total of 150 points.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>16.5</td>
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<tr>
<td>Exam 2</td>
<td>25</td>
</tr>
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</table>
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.

Grading System
Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:
- A = 90.00-100 points
- B = 80.00-89.99 points
- C = 70.00-79.99 points
- D = 60.00-69.99 points
- F = 0-59.99 points

General Policies Related to This Course
All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook¹
- Angelo State University Catalog²

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. I consider absences in excess of 3 classes to be excessive. Attendance will be checked by using Top Hat. **NOTE: You are NOT automatically dropped if you stop attending class.**
Academic Integrity
Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s Statement of Academic Integrity. ³

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.⁴ 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 Procedures⁶ for more information.
Plagiarism

Plagiarism is a serious topic covered in ASU's Academic Integrity policy® in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the ASU Writing Center.®

Student Absence for Observance 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 Miller, J.D.
Special Assistant to the President and Title IX Coordinator
Mayer Administration Building, Room 210
325-486-6357
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.

**Course Schedule**

<table>
<thead>
<tr>
<th>Week of</th>
<th>Lecture Topic</th>
<th>Text Chapter</th>
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<tbody>
<tr>
<td>25 January</td>
<td>Introduction; Science, religion, and evolution</td>
<td>2 (part)</td>
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<tr>
<td>1 February</td>
<td>History of evolutionary thought (<a href="#">Test 1 – Perimeter of Ignorance – Feb 4</a>)</td>
<td>2 (part)</td>
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<tr>
<td>8 February</td>
<td>Darwin (<a href="#">Test 2 – Ch 1 – Feb 11</a>)</td>
<td>1, 2</td>
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<tr>
<td>15 February</td>
<td>The Modern Synthesis and evidences of evolution (<a href="#">Test 3 – Ch 2 – Feb 18</a>)</td>
<td>2, 3</td>
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<tr>
<td>22 February</td>
<td>Natural selection &amp; adaptation (<a href="#">Test 4 – Ch 3 – Feb 25</a>)</td>
<td>3, 9 (only 9.6)</td>
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<tr>
<td>1 March</td>
<td>Mechanisms of evolutionary change – mutation (<a href="#">Test 5 – Ch 14 – Mar 4</a>)</td>
<td>5</td>
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<tr>
<td></td>
<td>***** 11 March Exam 1 *****</td>
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<tr>
<td>8 March</td>
<td>Genetics and Hardy-Weinberg equilibrium</td>
<td>6</td>
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<tr>
<td>15 March</td>
<td>Genetic drift, migration, assortative mating (<a href="#">Test 6 – Ch 1-4 YIF – Mar 18</a>)</td>
<td>7 (part)</td>
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<tr>
<td>22 March</td>
<td>Species concepts and mechanisms of speciation (<a href="#">Test 7 – Ch 5-7 YIF – Mar 25</a>)</td>
<td>16</td>
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<tr>
<td>29 March</td>
<td>Origin of life (<a href="#">Test 8 – Ch 8 – 11 + epilogue YIF – Apr 1</a>)</td>
<td>17</td>
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<tr>
<td>5 April</td>
<td>Precambrian evolution; Endosymbiosis</td>
<td>11,17</td>
</tr>
<tr>
<td>Date</td>
<td>Topic</td>
<td>Test</td>
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<tr>
<td>12 April</td>
<td>Cambrian explosion &amp; beyond, Continental drift.</td>
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<tr>
<td>19 April</td>
<td>Vertebrate evolution <strong>Test 10 – Ch 12 – Apr 22</strong></td>
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<tr>
<td>26 April</td>
<td>Human evolution</td>
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<tr>
<td>3 May</td>
<td>Human evolution <strong>Test 11 – Ch 20 – May 4</strong></td>
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<tr>
<td>11 May</td>
<td>***11 May 8:00 a.m. Final Exam ***</td>
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1. [https://www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
2. [https://www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
4. [https://www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
5. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)
8. [https://www.texastech.edu/downloads/ttus-policy-face-coverings.pdf](https://www.texastech.edu/downloads/ttus-policy-face-coverings.pdf)