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## GENERAL BIOLOGY II

Biology 1307

Spring 2024

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**Instructor:** Jessica L. Coleman, MS.

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**Office hours:** Mon & Wed 10:30am – 12pm, Wed. 2 – 3pm, or by appointment

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**Course Objectives:** Biology 1307 is the second of two courses designed to help understand the scientific study of life at the organismal, population, and community levels, including form, function, reproduction, taxonomy, systematics, ecology and evolutionary history of biodiversity.

**Student Learning Outcomes: After this class you should be able to...**

- To define biology, comprehend and apply the scientific process.
- To describe and understand the concept of evolution as genetic change in a population over time. To show how evolution is a unifying theme in biology.
- To describe the concept of phylogeny and apply it to prokaryotes, protists, plants, fungi, and animals.
- To describe and understand vertebrate anatomy and physiology.
- To describe and understand the ecology of population, communities, ecosystems, and the biosphere. Understand the role of humans in the ecology of the biosphere.
- To understand the significance of biology to you and your life and apply the knowledge acquired to making educated decisions as a member of society.
- To apply new learning and studying skills to your life

**Required Textbook and Other Materials:**

1. L. Urry, M. Cain, S. Wasserman, P. Minorsky, and J. Reece. 2019. *Campbell Biology in Focus*. 3<sup>rd</sup> Edition. Pearson Benjamin Cummings, San Francisco, CA.
  - a. Purchasing Options (only one needed)
    - i. Hard Bound or 3-hole punched book, either is acceptable
    - ii. Standalone MasteringBiology with E-book: Can be purchased at <http://www.pearsonmylabandmastering.com/northamerica/masteringbiology/>
2. Echo 360 account and license: available in the bookstore or on the Echo360 website. <https://account.turningtechnologies.com/account/>

**Grading:**

	Points Possible
*Exam 1	100
*Exam 2	100
*Exam 3	100
Final	150
Quizzes	70
Clicker points	15
Participation	15
Group Project (2)	100
<b>Total</b>	<b>650</b>

Grade Distribution		
Percentage	Points	Grade
90-100%	582 – 650	A
80-89%	511 – 581	B
70-79%	452 – 510	C
60-69%	387 – 451	D
50-59%	0 – 326	F

**\*Homework grade can replace the lowest regular exam score (final not included).**

**Grading:** Letter grades will be assigned according to the following scale:

**A = above 89.5    B = 79.5 – 89.49    C = 69.5 – 79.49    D = 59.5 – 69.49    F = Below 59.5**

All your course grades will be in Canvas, so you can view your current course grade anytime. Please be aware that I cannot give you EXTRA CREDIT or WORK at the end of the semester. Your average shown in Canvas will determine your final grade in the course.

At the end of the semester, grades will be calculated in Canvas according to the syllabus. If your average is **within 0.5 points** of the next letter grade, I will round it up **automatically** (see grade scale above). The only other adjustment that will be made is if the final percentage is **WITHIN ONE PERCENTAGE POINT** of the next letter grade (and **NO** more), and the student has missed **THREE OR FEWER LECTURES, TWO or FEWER WEEKLY QUIZZES** and has a **CLASS PARTICIPATION GRADE OF 80% or HIGHER**. I will round up to the next letter grade if you meet these criteria. (Mitigating circumstances will be considered at the instructor's discretion).

**Exam policy:** There will be four exams during the semester. The first three are regular exams consisting of approximately 50 questions (2pt each), while the fourth exam will be a comprehensive final consisting of approximately 100 questions (1.5pt each). All exams will be multiple-choice questions. The comprehensive exam will contain new and old content (terminology seen on all old exams). The **majority of questions** will be taken from **lecture content**. All exams will be taken in person, and **require the use of the clicker device (NXT or QT2 models only)**.

Be warned that I typically **DO NOT curve exams, so don't bother to ask!**

**Make-up Exams:** If you are unable to take an exam when scheduled due to unforeseen illnesses, deaths in the family, or other traumatic events, contact me within 24 hours of the event to schedule a make-up exam. Please provide **documentation** (letters from family are NOT acceptable) of the events that may conflict with exam dates. I will work with you to schedule a makeup exam.

If you are unable to take an exam as scheduled for some sort of non-emergency issue, then you must let me know well in **ADVANCE**. Students who fail to make timely arrangements will receive a grade of "0" for the exam missed.

**Quizzes:** There will be **at least seven** quizzes during the semester (potentially as many as 14). There will be individual and group quizzes this semester. There will be both in-class and online (posted on CANVAS) quizzes for you to complete during the semester. For each quiz (both individual and group), you will have 10-15 minutes to complete each quiz. For those quizzes taken during class time, if you arrive to class after a quiz has started, you will only have the time remaining on the quiz clock to complete your quiz. For quizzes you take online, you will have points deducted for going over the time allotted or if it is submitted late for each quiz. Each quiz will be worth 10 points. Only your **top seven highest quiz scores** will count toward your grade. If you miss a quiz for **ANY** reason (including illness and excused travel absences), that quiz will be counted as one of the dropped scores. **There will be NO make-up quizzes.**

For online quizzes, please make sure you are using a computer that is on **RELIABLE** Internet connection. If you are knocked offline while taking a quiz, I may have to clear the quiz before

another attempt can be made. If this happens, simply email as soon as it happens and I will clear your attempt. Keep in mind that if you start the quiz with only a few minutes left before it closes, I will not be able to clear your response, and you will get a "0" for the attempt.

**MasteringBiology (Potential Exam Replacement Score):** During the semester you will be assigned chapter readings and homework questions to complete during the semester. The grades for the homework assignments can be used to replace your lowest regular exam (not including final exam) during the semester. Announcements will be made in class and posted on Canvas when they are due. These assignments will be using the **MasteringBiology** ([www.masteringbiology.com](http://www.masteringbiology.com)) that comes with the textbook you purchase. This software will also allow you very valuable tools to use while you study for the course. MasteringBiology will provide you with tutorials and activities that integrate art from the textbook, and hopefully with aid in your comprehension of the topics covered.

**To register for MasteringBiology, use the link on the left-hand side of your Canvas page, "MyLab and Mastering," to log in and register for the course. For more information on registering for mastering, you can find a file on how to register under the modules tab ([MasteringBiology](#) folder).**

**Group Projects:** You will be assigned to a group of five this semester to complete two projects. These assignments will be worth **a total of 100 possible points** (50 per project). For each assignment, you must create an infographic on a particular topic (list to be provided) and submit it for a group grade. Your final score on the group project will include a team assessment you must complete on your team member's performance. Grades on these group projects may vary depending on how active you are in planning, creating, and submitting the final projects.

**More details on this assignment will be posted on CANVAS and discussed in class within the first week of the semester.**

**CANVAS:** Students should log onto **Canvas** ASAP and carefully read all announcements. Canvas and student email should be checked **DAILY** for new announcements or messages. On Canvas you will find lecture outlines, reviews for exams, videos, discussion board posts, and much more that will be very helpful for you as you take this course. You will also have quizzes posted throughout the semester under the module sections (labeled Quizzes). Announcements will be posted when these quizzes are active for you take. Another helpful tool is that **all course grades will be in Canvas, so students will be able to view and calculate their current course grade at any time.**

**Echo360 (formerly Turning Technology) Clickers:** For this course, you will need to purchase an **NXT or QT2 clicker AND create an Echo 360 (Turning Account) with a subscription from Echo 360.** This clicker will be used to answer questions during the semester and for taking exams. During the semester, you will be responsible for bringing to class the Turning Technologies Response Pad (NXT or QT2 Clicker) to **answer questions** during the lecture, as well as to **take attendance** for each class period. At the end of the semester, student responses will be used to assign **clicker points** (15pts) at the end of the semester. These clickers are also **required to take all of the exams** during the semester; without the right clicker, you will not be able to complete the exams.

Visit: <https://account.turningtechnologies.com/account/> to create an account. Make sure to use your **UT TYLER email** (@patriots.uttyler.edu) to create this account. The link is also posted

under the Modules tab on canvas. The NXT or QT2 response systems **MUST be used** to take the exams. During regular class time, if you forget your clicker, you can download the app (TurningPoint by turning technologies) to use on any android or iPhone to use as the clickers.

**It is your responsibility to remember to bring your clicker to every class.**

You will need to make sure to purchase a response pad **within the first few days of** class.

**Attendance/Participation:** Attendance and participation is essential to success in this class. If you miss a class, it is your responsibility to contact another student (not the instructor) to get notes and other announcements made during class. Your attendance will be recorded by answering the clicker questions during each class period. For attempting to answer your questions you will receive points for participating, and at the end of the semester will earn **participation points (15pts)**. This will be calculated based on the number of clicker questions you were there to attempt.

**Academic Integrity:** Students should be aware that absolute academic integrity is expected of every student in all undertakings at The University of Texas at Tyler. Failure to comply can result in strong university-imposed penalties. **Be forewarned that possession of anything containing course content will be considered cheating, whether or not you actually refer to it during the exam.** Also be aware that **TALKING during an EXAM to anyone other than the instructor or proctor will automatically be considered cheating.** It does not matter what you were talking about. This includes the use of **cell phones** (even if they call YOU) or any other electronic device that could be used to record test material. Violation of this policy will be **considered cheating and treated accordingly.** Penalties for cheating include anything from a **zero on the exam or quiz** during which the cheating occurred, up to an **F for the course in question**, at the discretion of the instructor.

**Supplemental Instruction (SI):** Group study sessions are offered several times per week, led by specially trained students. Students who participate in these sessions regularly **score significantly higher on exams**, so attend whenever possible. Session schedules are posted on Canvas and will be announced regularly in class or announcement on Canvas by your SI Leader.

## **UNIVERSITY POLICIES**

**UT Tyler Honor Code:** Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

**Students Rights and Responsibilities:** To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link:  
<http://www2.uttyler.edu/wellness/rightsresponsibilities.php>

**Campus Carry:** We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at  
<http://www.uttyler.edu/about/campus-carry/index.php>

**UT Tyler Tobacco-Free Policy:** All forms of tobacco will not be permitted on the UT Tyler main

campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

- Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.
- There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit [www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free)

**Grade Replacement/Forgiveness and Census Date Policies:** Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract. The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

**State-Mandated Course Drop Policy:** Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

**Disability/Accessibility Services:** In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Tyler at Texas offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the **New Student** application. The **Student Accessibility and Resources (SAR)** office will contact you when your application has been

submitted and an appointment with Cynthia Lowery, Assistant Director Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079.

**Student Absence due to Religious Observance:** Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second-class meeting of the semester.

**Student Absence for University-Sponsored Events and Activities:** If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

**Social Security and FERPA Statement:** It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g. via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

**Emergency Exits and Evacuation:** Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

**Student Standard of Academic Conduct:** Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

i. "Cheating: includes, but is not limited to:

- Copying from another student's test paper;
- Using, during a test, materials not authorized by the person giving the test;
- Failure to comply with instructions given by the person administering the test;
- Possession during a test of materials which are not authorized by the person administering the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- Using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- Collaborating with or seeking aid from another student during a test or other assignment without authority;
- Discussing the contents of an examination with another student who will take the examination;
- Divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructor has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- Substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- Paying of offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer

- program or information about the unadministered test, test key, home solution or computer program;
  - Falsifying research data, laboratory reports, and/or other academic work offered for credit;
  - Taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonable should know that that an unfair academic advantage would be gained by such conduct; and
  - Misrepresenting facts including providing false grades or resumes, for the purpose of obtaining by an academic or financial benefit or injuring another student academically or financially.
- ii. “Plagiarism:” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by other means another’s work and the submission of it as one’s own academic work offered for credit.
- iii. “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
- iv. All written work that is submitted will be subject to review by plagiarism software.

### **Important Covid-19 Information for Classrooms and Laboratories**

It is important to take the necessary precautions to ensure a healthy and successful year. UT Tyler continues to urge you to protect yourselves against the flu, COVID and any new threats that may be developing. Be diligent about preventive measures such as washing hands, covering sneezes/coughs, social distancing and vaccinations, which have proven to be successful in slowing the spread of viruses. Encourage those who don’t feel well to stay home, and if they show symptoms, ask them to get tested for the flu or COVID. Self-isolation is important to reduce exposure ([CDC quarantine/isolation guidelines](#)). Please work with your faculty members to maintain coursework and please consult [existing campus resources](#) for support.

### **Recording of Class Sessions**

Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

### **UT Tyler Resources for Students:**

UT Tyler Writing Center (903.565.5995), [writingcenter@uttyler.edu](mailto:writingcenter@uttyler.edu)

UT Tyler Tutoring Center (903.565.5964), [tutoring@uttyler.edu](mailto:tutoring@uttyler.edu)

The Mathematics Learning Center, RBN 4021, this is an open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.

UT Tyler Counseling Center (903.566.7254)

**I RESERVE THE RIGHT TO MODIFY THIS SYLLABUS AT ANY TIME.  
THEREFORE, YOUR ATTENDANCE AND ATTENTION TO THE  
ANNOUNCEMENTS IN CANVAS ARE CRUCIAL BECAUSE THEY WILL ASSIST  
YOU IN REMAINING CURRENT ON THE MATERIAL AND KNOW WHEN THE  
SYLLABUS MAY BE MODIFIED.**

<b>Schedule of Topics - BIOL 1307</b>	
<b>Topic</b>	<b>Chapter</b>
Genomics and Their Evolution	18
Descent with Modification	19
Phylogeny	20
Evolution of Populations	21
<b><i>Exam I – **Feb 14<sup>th</sup></i></b>	
The Origin of Species	22
Broad Patterns of Evolution	23
Early Life and the Diversification of Prokaryotes	24
The Origin and Diversification of Eukaryotes	25
<b><i>Exam II – **March 8<sup>th</sup></i></b>	
The Colonization of Land by Plants and Fungi	26
The Rise of Animal Diversity	27
Animal Form and Function	32 – 39 (excerpts)
Excerpts from chapters 32 – 39 highlighting each system	
<b><i>Exam III – **April 10<sup>th</sup></i></b>	
Pop. Ecology and the distribution of organisms	40
Species Interactions	41
Ecosystems and Energy	42
Global Ecology and Conservation Biology	43
<b>Final Exam (Comprehensive) – April 29<sup>th</sup> and May 1<sup>st</sup></b>	

**\*\* Tentative Exam Dates – subject to change**

**No classes: Spring Break – March 11 – 15, 2024**

**Last Day to Drop with a “W”: March 25<sup>th</sup>, 2024**

**Final Exam: 8:00am MWF class – Wednesday, May 1<sup>st</sup>, 2024 @ 8am  
9:05am MWF class – Monday, April 29<sup>th</sup>, 2024 @ 8am**