GENERAL BIOLOGY I

Biology 1306

Instructor: Jared Dickson

Office: BEP 104 Email: jdickson@uttyler.edu

Office hours: Thursdays 9AM – 12PM, or by appointment

Class Hours: Mo/We 5:30PM – 6:50PM

Course Objectives: Biology 1306 is the first of two courses designed to provide a thorough introduction to biological science. The goal of the course is that students learn important facts about the natural world and understand the significance of these facts within the context of major biological concepts.

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

- Define biology and evolution
- Comprehend and apply the scientific process
- Describe a cell, its’ parts, how it uses energy (respiration and photosynthesis), its’ processes of replication (mitosis and meiosis), and the relevance of those things to patterns of inheritance (genetics)
- Understand the significance of biology to you and your life
- Apply the knowledge you have acquired to make educated decisions as a member of society

Required Textbook and Other Materials:


1. Purchasing Options (only one needed)
   1. Hard Bound text with MasteringBiology with E-book
   2. 3-hole punched book with MasteringBiology with E-book

   • Standalone MasteringBiology with E-book: Can be purchased at [http://www.pearsonmylabandmastering.com/northamerica/masteringbiology/](http://www.pearsonmylabandmastering.com/northamerica/masteringbiology/) (Links to an external site.) or in the bookstore

Grading:

<table>
<thead>
<tr>
<th></th>
<th>Points Possible</th>
<th>Grade Distribution</th>
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</thead>
<tbody>
<tr>
<td><em>Exam 1</em></td>
<td>100</td>
<td>Percentage</td>
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<tr>
<td></td>
<td></td>
<td>Points</td>
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<tr>
<td></td>
<td>90-100%</td>
<td>493 – 550</td>
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<tr>
<td><em>Exam 2</em></td>
<td>100</td>
<td>80-89%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>438 – 492</td>
</tr>
<tr>
<td><em>Exam 3</em></td>
<td>100</td>
<td>70-79%</td>
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<tr>
<td></td>
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<td>383 – 437</td>
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<tr>
<td>Final</td>
<td>150</td>
<td>60-69%</td>
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<tr>
<td></td>
<td></td>
<td>328 – 382</td>
</tr>
<tr>
<td>Quizzes</td>
<td>70</td>
<td>50-59%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 – 327</td>
</tr>
<tr>
<td>Participation</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td><strong>550</strong></td>
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</table>
*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 of your course grades will be in Canvas, so you will be able to view your current course grade at any time. 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 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**. IF you meet these criteria, then I will **round up to the next letter grade**. (Mitigating circumstances will be taken into account at the discretion of the instructor).

**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 that will consist 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 in all old exams). The **majority of questions** will be taken from lecture content. **Be warned that I typically DO NOT curve exams, so don’t bother to ask!** Exams will be scored using the 882-E Green Scantrons. You will need to purchase your scantrons prior to taking the exams!

**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 hrs 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 issues, then you must let me know well in **ADVANCE**. Students who fail to make timely arrangements will most likely receive a grade of “0” for the exam missed.

**Quizzes:** There will be **at least** 7 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 in 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 point deducted for going over the time allotted for each quiz. Each quiz will be worth 10 points. Only your **top 7 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.

Homework: 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 the 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) 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. You will need the following code to register for this class: dickson39464.

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 to take. Another really 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.

Attendance/Participation: Attendance and participation are essential to success in this class. If you miss 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 that 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 the class by your SI Leader.

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.utttyler.edu/wellness/rightsresponsibilities.php (Links to an external site.)Links to an external site.
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.

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- 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 Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including non-visible diagnoses 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.

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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 the University Police, Fire department, or Fire Prevention Services.

Concealed Handgun Policy: 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 (Links to an external site.)Links to an external site.

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 (Links to an external site.)Links to an external site.
### Schedule of Topics - BIOL 1306:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter</th>
</tr>
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<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Chemical Context of Life</td>
<td>2</td>
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<tr>
<td>Carbon and Molecular Diversity of Life</td>
<td>3</td>
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<tr>
<td>Tour of the Cell</td>
<td>4</td>
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<tr>
<td>Membrane Transport and Cell Signaling</td>
<td>5</td>
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<tr>
<td><strong>EXAM I – ** Feb. 9th</strong></td>
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<tr>
<td>Introduction to Metabolism</td>
<td>6</td>
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<tr>
<td>Cellular Respiration and Fermentation</td>
<td>7</td>
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<tr>
<td>Photosynthesis</td>
<td>8</td>
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<tr>
<td>The Cell Cycle</td>
<td>9</td>
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<tr>
<td>Meiosis and Sexual Life Cycles</td>
<td>10</td>
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<tr>
<td><strong>EXAM II – ** March 2nd</strong></td>
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<tr>
<td>Mendel and the Gene Idea</td>
<td>11</td>
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<tr>
<td>Chromosomal Basis of Inheritance</td>
<td>12</td>
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<tr>
<td>Molecular Basis of Inheritance</td>
<td>13</td>
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<tr>
<td>Gene expression (Gene to Protein)</td>
<td>14</td>
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<tr>
<td>Regulation of Gene Expression</td>
<td>15</td>
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<tr>
<td><strong>EXAM III – ** April 6th</strong></td>
<td></td>
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<tr>
<td>Development, Stem Cells, and Cancer</td>
<td>16</td>
</tr>
<tr>
<td>Viruses</td>
<td>17</td>
</tr>
</tbody>
</table>

**Tentative Exam Dates – subject to change**

No classes:  Martin Luther King, Jr. Holiday - Jan. 17, 2022

Spring Break - March 7-12, 2022

Last Day to Drop with a “W”: **March 28, 2022**

Final Exam: **TBD**
UNIVERSITY POLICIES AND ADDITIONAL INFORMATION THAT MUST APPEAR IN EACH COURSE SYLLABUS

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.

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Revised 05/19
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Student Standards 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 giving 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 or 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 an 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 reasonably should know 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 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 any 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.

UT Tyler Resources for Students
- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the 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)