**Syllabus:** Biology I for Science Majors – **Lecture Course**

**Course Number:** **BIOL 1306.01-OOS**
**Semester & Year:** FALL 2020

**Instructor Information**

 Name: Prof. Mark Storey
 Office: New Biology Building Rm# 29
 Telephone: 903-823-3298
 E-mail: Mark.Storey@texarkanacollege.edu

Office Hours: (*email for an appointment)*

**Textbook Information**

* **Required Download Only- Biology** – Openstax Rice University (FREE downloadable PDF format ) <https://openstaxcollege.org/textbooks/biology>
* **Strongly Recommended!!** Textbook **Principles of Life**. Hillis, Sadava, Heller and Price 1st ed.(2012) Sinauer Assoc Inc and W.H. Freeman and Co. **ISBN 978-1-4292-5721-3** (This book is **not available** at the TC bookstore!!! Please DO NOT purchase this book before talking to me first!)

**Course Communication**

 Official communication is through TC student email. (myTC web portal)

Remind Text Service – Students are required to register for the REMIND text service

 See handout for instructions on how to sign up.

**Technical Requirements & Solutions for this course**

*A basic level of technical competence and equipment are necessary for participating in this online class. You should already be able to perform the following tasks:*

* Attach document files to an e-mail message.
* Complete assignments using (MS Word) word processing software.
* Locate, save, and retrieve files on the computer.
* Send/receive email via your TC student email account.
* Use a web browser like Internet Explorer or Firefox and search engines like Google.

*You should have regular, reliable access to software and Internet resources with a modern computer manufactured within the last three years. (access to only a mobile device is NOT enough to succeed in this class).*

**TC Computer Requirement Policy:**

Students are required to have a computer with Internet access for classes. The computer must be an actual computer – smart phones, iPads, Androids, Chromebooks, etc., are not acceptable substitutes because they lack software compatibility necessary to complete all assignments and tests. Financial costs for the necessary equipment and internet access are the responsibility of the student.

Students needing to purchase a computer may do so through the Texarkana College Bookstore. Systems purchased through the bookstore meet or exceed all requirements, are competitively priced, and may be purchased using financial aid funds. If the system is purchased through another source, it is the student’s responsibility to ensure the system meets all requirements.

Computer systems requirements:

* Webcam, microphone, and speakers or headphones
* Windows 10 or a recent version of Mac OS (minimum Sierra). Windows 10 S mode is not supported
* Hardware capable of running Microsoft Teams (free download) and supports multi-media playback
* Support for Chrome or Microsoft Edge – Note: Firefox, Safari, or other browsers may not work on all TC applications
* Able to run Microsoft Office which will be provided free to TC students
* Adobe Reader or another PDF viewer
* Antivirus software such as Windows Defender or another 3rd party anti-virus solution
* The Respondus Lockdown browser is used for taking tests; therefore, the system must be capable of running this software. Most newer systems that meet other specifications should work.

Students should regularly backup content to prevent loss of coursework due to hardware failure. Backup copies of documents and other coursework may be placed on OneDrive cloud storage. OneDrive is included free of charge for all TC students.

A list of Internet service providers can be found on the TC website at: <https://www.texarkanacollege.edu/coronavirus/>.

***LockDown Browser + Webcam* Requirement**

**This course requires the use of *LockDown Browser and a webcam* for online exams**. The webcam can be the type that's built into your computer or one that plugs in with a USB cable.

You must use a Mac or Windows computer or iPad device. **Chromebook and mobile smart phones are NOT supported. This is a course requirement (not optional).**

Watch this brief video to get a basic understanding of LockDown Browser and the webcam feature.

<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

**Download Instructions**

* Select the quiz in the course
* You will see the message "This quiz has been configured so that students may only attempt it using the Respondus LockDown Browser."
* Below this will appear a "Download LockDown Browser" link. Click the button to go to the download page and then follow the instructions
* Download Respondus LockDown Browser to your computer; follow the installation instructions
* Return to the Quiz page in Moodle (it may still be open in another tab)
* Select "Launch LockDown Browser"
* The quiz will now start

Note: LockDown Browser only needs to be installed once to a computer or device. It will start automatically from that point forward when a quiz requires it.

**Guidelines**
When taking an online quiz, follow these guidelines:

* Ensure you're in a location where you won't be interrupted
* Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach
* Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it
* Clear your desk or workspace of all external materials not permitted - books, papers, other devices
* Remain at your computer for the duration of the test
* If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam
* To produce a good webcam video, do the following:
	+ **Avoid wearing baseball caps or hats with brims**
	+ Ensure your computer or device is on a firm surface (a desk or table). **Do NOT** have the computer on your lap, a bed, or other surface where the device (or you) are likely to move
	+ If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete
	+ Take the exam in a **well-lit room**, but avoid backlighting (such as sitting with your back to a window)
* Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

**Getting Help**
Several resources are available if you encounter problems with LockDown Browser:

* The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area
* The TC help desks want you to run the "System & Network Check" and the "Webcam Check" before you contact them and be sure to forward the results of these checks at the time of opening a ticket. Contact the TC Help Desk at **903 -823-3030** or at <https://www.texarkanacollege.edu/helpdesk/> .
* Respondus has a Knowledge Base available from support.respondus.com. Select the "Knowledge Base" link and then select "Respondus LockDown Browser" as the product. If your problem is with a webcam, select "Respondus Monitor" as your product
* If you're still unable to resolve a technical issue with LockDown Browser, go to support.respondus.com and select "Submit a Ticket". Provide detailed information about your problem and what steps you took to resolve it.

**Student Learning Outcomes for the Course**

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| *At the conclusion of the* ***lecture portion*** *of this course students should be able to:*1. Describe the characteristics of life.
2. Explain the reasoning used by scientists.
3. Identify the basic properties of substances needed for life.
4. Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
5. Describe the structure of cell membranes and the movement of molecules across a membrane.
6. Identify the substrates, products, and important chemical pathways in metabolism.
7. Identify the principles of inheritance and solve classical genetic problems.
8. Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
9. Describe the unity and diversity of life and the evidence for evolution through natural selection.
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**Student Requirements for Completion of the Course**

**Lecture Topics/ - Biology 1306**

**EXAM I – (from home LockDown browser and Webcam Required)**
Chapter 1: Principles of Life
Chapter 2: Life Chemistry and Energy
Chapter 3: Nucleic Acids, Proteins and Enzymes

 **EXAM II - (from home LockDown browser and Webcam Required)**

Chapter 4: Cells: The Working Units of LifeChapter 5: Cell Membranes and Signaling
Chapter 6: Pathways that Harvest and Store Chemical Energy

 **EXAM III - (from home LockDown browser and Webcam Required)**

Chapter 7: The Cell Cycle and Cell Division

Chapter 8: Inheritance, Genes and ChromosomesChapter 9: DNA and Its Role in Heredity

**FINAL EXAM** - **(from home LockDown browser and Webcam Required)**

(20% of Final) Chapter 10: From DNA to Protein: Gene Expression (Essay Questions)

(80 % Comprehensive Section) Emphasis on Student Learning Guide Questions Chapters 1- 9

**Student Assessment**

Three (3) lecture exams will be given over thee units and a comprehensive final exam, for a total of **four exams.** (see section above) The examination format will include multiple choice, short answer and essay items. Exams will be administered according to the course schedule /calendar. The lecture unit exams and the Final course exam will be conducted outside of class time using the Respondus LockDown browser and Respondus Monitor to automatically proctor your exams. This is a course requirement and you will be dropped from the course if you can not take your exam using this system as described.

**Course Testing POLICY – Online Exams taken via the TC Online LMS (Moodle) Course page**

<https://tconline.texarkanacollege.edu/course/view.php?id=5043>

**Lecture Exams are conducted outside of class online from home using the TC LMS (Moodle).**

The lecture exams are use Multiple Choice and Matching and True/False format; on the Moodle Course Management System (TC Online). These exams are timed exams and require the use of the Respondus LockDown Browser + Webcam as described above.

**Active & Cooperative Learning / Bonus Credit Questions**: During each lecture class session on MS-Teams each student will answer questions within a short time frame (~ 90 seconds). You will receive a “bonus credit” for each question answered correctly. These bonus credits will be converted into bonus points to be awarded to each student’s individual lecture exam (1,2,and 3) score based on a conversion taking into account the performance of the entire class on the exam.

**The course grade is available on the *myTC* under the student tab and will be calculated from the following schedule:**

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| **Lecture Exams (3)**  | **60%** |
| **Final Comprehensive Exam** | **20%** |
| **Chapter Homework Quizzes** | **20%** |
| **Total** | **100%** |

**Grading Scale**

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| **Semester Grade**  | **Course Average** |
| **A** | 89.5-100 |
| **B** | 79.5-89.4 |
| **C** | 69.5-79.4 |
| **D** | 59.5-69.4 |
| **F** | 59.4-below |

**Class Schedule**

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| **Topics** | **Principles of Life 1 / 2 Edition** | **Biology Openstax Rice Univ. (Green book)** |
| **EXAM I Unit** |  |  |
| Introduction Scientific Method | Chapter 1 Principles of Life | Chapter 1 The Study of Life |
| Basic biological Chemistry | Chapter 2 Life Chemistry and Energy | Chapter 2 The Chemical Foundation of Life Chapter 6 Metabolism  |
| Macromolecules and Energy within cells | Chapter 3 Nucleic Acids, Proteins and Enzymes | Chapter 3 Biological MacromoleculesChapter 6 Metabolism |
| **EXAM 1** | **Closes 9/20 @ 11:59PM** | **From home** |
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| **EXAM II Unit** |  |  |
| Cell anatomy/function | Chapter 4 Cells: The Working Units of Life | Chapter 4 Cell Structure |
| Cell Membranes | Chapter 5 Cell Membranes and Signaling | Chapter 5 Structure and Function of Plasma MembranesChapter 9 Cell Communication |
| Cellular Respiration and Photosynthesis | Chapter 6 Pathways that Harvest and Store Chemical Energy | Chapter 7 Cellular RespirationChapter 8 Photosynthesis |
| **Exam 2** | **Closes 10/25 @ 11:59PM** | **From home** |
| **EXAM III Unit** |  |  |
| Cell Cycle and cell division | Chapter 7 The Cell Cycle and Cell Division | Chapter 10 Cell ReproductionChapter 11 Meiosis and Sexual Reproduction |
| Genetics  | Chapter 8 Inheritance, Genes and Chromosomes | Chapter 12 Mendel’s Experiments and HeredityChapter 13 Modern Understandings of Inheritance |
| DNA Replication | Chapter 9 DNA and its Role in Heredity | Chapter 14 DNA Structure and Function |
| **EXAM 3** | **Closes 11/22 @ 11:59PM** | **From home** |
| **FINAL EXAM Unit** |  |  |
| Transcription and Translation | Chapter 10 From DNA to Protein: Gene Expression | Chapter 15 Genes and Proteins |
| **FINAL EXAM**  | 80% Comprehensive 20% CHAPTER 10 | **TBD Final Exam Schedule** |

 **Absentee Policy**

**ONLINE COURSE ABSENCES
Absence in an online course is defined as the lack of an active post or submission within the course including required lecture chat window submissions, written assignments and tests. This standard will be used to determine all lecture absentee issues***.* **All online students must complete an Enrollment Verification activity QUIZ within the first week of class or the professor may drop the student for not having attended.**

**The maximum number of absences is four (4) per semester.** The only excused absences are for officially recognized TC student club activities or for Texarkana College official business.

**Please Note: Illness and doctor appointments do not qualify as an excused absence.**

 **You will be counted absent if:**

* **You fail to attend and participate in a scheduled (live) MS Teams Session**
* **You do not turn an assignment in before the scheduled deadline**
* **You do not complete a scheduled quiz before the published deadline**

 **WARNING: If you exceed the maximum number of absences for this course you may be dropped (W) from the course.**

Students are required to attend lecture classes for the entire period. Students that arrive more than 10 minutes after class has begun or leave early, will be marked as absent. Students that arrive and no later than10 minutes after class has begun will be recorded as tardy. **Two tardies will be recorded as an absence**.

If situations make it necessary for missing class you are still responsible for all the work you missed during class. If you miss class, you should let me know ASAP (by TC student e-mail) and in advance if at all possible. I can give you the assignments to help you remain current in the course.

If circumstances develop (e.g. extended illness, moving from the city, etc.) which necessitates your withdrawal from this or any other course be sure to let me know AND officially withdraw in the Director of Admissions office located in the C. M. Nelson Administration building. The date each semester is posted on the inside page of the current Texarkana College Catalog / Website under "Academic Calendar". A grade of W is recorded on your permanent transcript*if**you withdraw before the official deadline*.

**Make-up Policy**

**No makeups** are given for lecture exams in this course. Any portion of the exam **cannot** be made up.

**Written assignments** in lecture are due before the beginning of the class session via e-mail: *Mark.Storey@texarkanacollege.edu* and must be time stamped as such and will be penalized 20% for being late for the first 24 hours and will not be accepted after 24 hours.

**Class Conduct**

 Students are expected to conduct themselves as adults. **There will be a zero tolerance policy for any behavior that is disruptive of classroom learning.  This includes ANY use of vulgar language or rude behavior toward instructor or any other student in the class.** Any student who acts in such a manner as to disturb the class and interfere with the learning process will be removed from the MS Teams session and expelled from the course with a grade of "F".

**All exams are online in this course. These exams will be timed and may only be accessed using the *Respondus LockDown browser + Webcam* on the TC Online LMS (Moodle) course page as described previously in the document.**

**Exams are understood to be taken by the student without the help or assistance from any other person. If students are discovered as having colluded or being aided in violation of the course policies outlined in this syllabus, within the TC Online course page (Moodle LMS) or those of the TC Student Handbook will receive a zero (0) for the quiz or examination. You will also be counted absent for that class session. Further disciplinary action will be at the discretion of the Dean of STEM and or the Dean of Students at Texarkana College.**

**Academic Integrity Statement**

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, col­lusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

**Disability Act Statement:**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact the Recruitment, Advisement, and Retention Department located in the TC Library for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

**Financial Aid:**

**Attention!** Dropping this class may affect your financial aid funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.

# Course Continuity Plan

In the case that the college officially closes because of an emergency (inclement weather, viral pandemic etc.) which causes a disruption of this course, we will use the TC Moodle LMS (“TC Online”) and TC student e-mail and the REMIND SMS text message service to continue this course in the short term. All students need to use their campus e-mail to receive course related information. **Students should check their TC email multiple times per day during this short five week semester**.

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| **Basic Needs Security**Any student who has difficulty affording groceries or accessing enough food to eat every day, or who lacks a safe and stable place to live and believes this may affect their performance in this course or ability to remain in school, is urge to contact Tonja Blaise, Director of Student Retention, at 903-823-3349 for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable the professor to provide any resources to help you than they may possess.**Alternate Operations during Campus Closure** In the event of an emergency or announced campus closure due to a natural disaster or pandemic, Texarkana College may need to move to altered operations and course delivery methods. During this time, Texarkana College may opt to continue delivery of instruction through methods that include, but are not limited to: online learning management system (Jenzabar or Moodle), online conferencing through TEAMS, email messaging, and/or an alternate schedule.  It is the responsibility of the student to monitor Texarkana College's website ([www.texarkanacollege.edu](http://www.texarkanacollege.edu)) for instructions about continuing courses remotely, instructor email notifications on the method of delivery and course-specific communication, and Texarkana College email notifications for important general information. **COVID-19 Online/Virtual Environment Instructional Commitment** The ongoing Covid-19 situation will require that some course materials and instruction are provided through an online and/or virtual format. Even if all or a portion of a class was originally scheduled to meet face to face, social distancing guidelines associated with Covid-19 will limit the number of students who are able to attend face to face classes in person simultaneously. Further, circumstances associated with Covid-19 could cause the college to be forced to shift completely to an online and/or virtual delivery at any time during the semester. While TC faculty members are committed to providing students the option of face to face instruction if possible, students should be prepared to continue their classes in an online and/or virtual environment if necessary. Texarkana College is committed to maintaining engaging, high quality instruction regardless of the delivery format.**I reserve the right to modify the syllabus at any time during the semester. The online version of this syllabus (*TC Online LMS*) is the official syllabus and supersedes all versions of this document in print.**  |
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**PRINT OUT THIS PAGE Sign and Date and take a photo and email it to:**

**Mark.Storey@texarkanacollege.edu**

**By signing this statement**, **I agree that I have read and understand what is expected of me to perform satisfactorily in this course of study**. I also understand that any photographic and or audio recordings that are made of students including myself) during this class of are the property of Texarkana College and can be used to promote the educational mission of Texarkana College.

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Student Name (**PRINT** First & LAST NAME)

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Legal Signature

\_\_\_\_\_BIOL 1306.01-OOS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
TC Course Number / Section Number

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Date