BIO 311C **Introductory Biology I** **Spring 2020**

Unique Numbers: 46715, 46720, 46725, 46730, 46735, 46740

Meeting Time & Place: MWF 11 am – 12 pm: BUR 116

Instructor: Dr. E. Jane Bradbury, Ph.D.

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Office Hours: Individual Meetings Only: Monday 9:30 – 10:30 am PAI 1.48B

Group Content Questions: Wednesday 1 pm – 3 pm PAI 1.48B

By Appointment.

TA information: Please see the Course Resources section of Canvas

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Course Description:

Introduction to Biology I is the primary foundational course in biology at UT, Austin. As such, it will provide a comprehensive introduction to the key themes of biology, including biological macromolecules, cell structure and function, energy transformation via cellular respiration and photosynthesis, molecular genetics, and cellular division. This course is intended for science majors and pre-health profession students. However, any student meeting the prerequisite may attend (credit or concurrent registration in Chemistry 301). **If you are not a science or pre-health major, I encourage you to investigate BIO 301D as an option to fulfill your science requirement.** Additionally, though this course is a Biology course, I encourage all students to also view it as a ***language*** course—there are more new vocabulary words in the average introductory biology course than in an introductory foreign language course!

Core Objectives:

This course may be used to fulfill three hours of the natural science and technology (Part I or Part II) component of the university core curriculum and addresses the following four core objectives established by the Texas Higher Education Coordinating Board: communication skills, critical thinking skills, teamwork, and empirical and quantitative skills.

By the end of this course, students should be able to:

1) Provide at least three detailed examples that demonstrate how biological systems evolve structure that relates to function.

2) Diagram how energy is stored, used, and transformed in living systems;

3) Describe how genetic information is transmitted through DNA replication and cell division and expressed in a regulated manner.

Required Materials:

- *Biology*, by NA Campbell and JB Reece, 11th edition.
- Though the accompanying "Mastering Biology" is not required, I strongly recommend you get it, as many BIO 311D professors will require it and it is an excellent supplemental study resource.
- Student subscription to the in-class online interactive learning platform TopHat

Grading Policy:

Assessment	Points Earned
3 written exams at 100 points each	300
Cumulative final exam	120
Homework, Activities, & Assignments	100
Total	**520**

Official University of Texas at Austin Grading Scale:

Percentage	Letter Grade
93.5% and above	A
90% - 93.49%	A-
86.5% - 89.99%	B+
83.5% - 86.49%	B
80% - 83.49%	B-
76.5% - 79.99%	C+
73.5% - 76.49%	C
70% - 73.49%	C-
66.5% - 69.99%	D+
63.5% - 66.49%	D
60% - 63.49%	D-
59.99% and below	F

Re-Grade Policy: After each assignment, you should review your responses, both to learn from your errors and to double-check for accuracy. Should you find a grading decision with which you disagree, you may **either:**

- Come to Dr. Bradbury's **Monday office hours** for an individual meeting to discuss your grade OR
- submit **to Dr. Bradbury** a **written justification of your answer** no later than **one week from the time the assignment was returned.**

Teaching & Learning Philosophy:
An important part of succeeding in this course is understanding the underlying philosophy behind my teaching strategies. Education should be valued for its ability to grow and strengthen the mind. I expect you to be engaging in this course because you desire to improve yourself and your cognitive abilities. This attitude carries with it an implicit sense of self-responsibility for one's own learning. I am not here to *teach you* as much as I am here to *help you learn*. I always do my best to craft my courses to provide a diverse set of learning opportunities. One tool available to you will be the traditional lecture. However, just as much of the course content will be communicated with readings and other exercises. Similarly, there is an entire body of literature that would be impossible to formally include in the course but which I encourage you to explore in your quest for understanding specific facets of course content. I cannot tell you "everything you need to know"—that's not how true learning works. However, I am committed to providing you with the best possible learning environment to expand your understanding of the science and systems of life!

Expectations on Class Attendance and Courtesy: You are expected to attend class and there will be unannounced, intermittent point-carrying assignments or activities that occur in lecture and discussion. Additionally, I expect you to conduct yourself like a polite adult at all times in my classes. Disruptive behavior, as determined solely by the instructor, will result in your removal from that day's class and loss of any points earned for that day.

University Policies:

Religious holy days: A student who misses classes or other required activities, including examinations, for the observance of a religious holy day should inform the instructor at least one week before the absence and be prepared to complete the assignment before the absence.

Students with Disabilities: Please notify your instructor of any modification/adaptation you may require to accommodate a disability-related need. You may find out more information on the Services for Students with Disabilities website: http://diversity.utexas.edu/disability/ and/or http://diversity.utexas.edu/disability/how-to-register-with-ssd/

Policy on Scholastic Dishonesty: Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Policies on scholastic dishonesty will be strictly enforced. For further information, please visit the Office of Student Conduct and Academic Integrity website at http://deanofstudents.utexas.edu/conduct/.

Use of E-mail for Official Correspondence to Students: All students should be familiar with the University's official e-mail student notification policy. It is the student's responsibility to keep the University informed as to changes in his or her e-mail address. Students are expected to check e-mail on a frequent and regular basis in order to stay current with University-related communications, recognizing that certain communications may be time-critical. The complete text of this policy and instructions for updating your e-mail address are available at http://www.utexas.edu/its/policies/emailnotify.html .

University of Texas Honor Code: "As A Student Of The University Of Texas At Austin, I Shall Abide By The Core Values Of The University And Uphold Academic Integrity."