

# University of North Texas at Dallas

## Spring 2014

### SYLLABUS

<b>BIOL 1720: Principles of Biology II 3Hrs</b>	
Department of	Life and Health Sciences
Division of	Liberal Arts and Life Sciences
<b>Instructor Name:</b>	Dr. Aubrey Frantz
<b>Office Location:</b>	Room 251, Building 2
<b>Office Phone:</b>	972-338-1523
<b>Email Address:</b>	<a href="mailto:aubrey.frantz@unt.edu">aubrey.frantz@unt.edu</a>
<b>Office Hours:</b>	T 1:00-2:00 W 12:00-1:00 R 1:00-2:00 (If you need another time, please contact me by email)
<b>Classroom Location:</b>	DAL2 242
<b>Class Meeting Days &amp; Times:</b>	Lecture: TR 10:00-11:20 Recitation: R 9:00-9:50
<b>Course Catalog Description:</b>	BIOL 1720 is the second half of a College two-semester 1st year Biology sequence designed for science majors or students who require a biology class that will meet the requirements for Biology majors (e.g. premedical or other pre-professional students who may be completing a non-biology major). The intent of this course sequence is to provide the student with a broad background in biology that can serve as a prerequisite for higher-level courses if desired.
<b>Prerequisites:</b>	<b>BIOL 1710</b>
<b>Co-requisites:</b>	<b>BIOL 1740 Laboratory</b>
<b>Required Text:</b>	<i>Campbell Biology</i> (9th ed). 2011. Reece, Urry, Cain, Wasserman, Minorsky, and Jackson ISBN-10: 0321775651   ISBN-13: 978-0321775658
<b>Access to Learning Resources:</b>	UNT Dallas Library: phone: (972) 780-3625; web: <a href="http://www.unt.edu/unt-dallas/library.htm">http://www.unt.edu/unt-dallas/library.htm</a> UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: <a href="mailto:1012mgr@fheg.follett.com">1012mgr@fheg.follett.com</a>
<b>Course Goals or Overview:</b>	
	To provide students with a broad understanding of biology at the organismic and systems level
<b>Learning Objectives/Outcomes:</b> At the end of this course, the student will	
1	Be able to explain the process of evolution, demonstrate knowledge of the mechanisms of evolution and explain how evolution unifies biology.
2	Demonstrate the ability to assimilate and critically think about biological theory
3	Identify major domains of life
4	Identify components and associated organs of the major physiological systems

#### TEXAS CORE CURRICULUM

##### Student Learning Objective and Outcome Assessments:

**Objective 1:** Students will take a laboratory practical that will demonstrate the degree to which they have explored and understand the topics of evolution, diversity of life, and physiology.

**Objective 2:** Students will answer a written question on the first midterm in which they compare mechanisms of evolution.

**Objective 3:** Students will participate in discussions about relevant topics of biology and society.

## Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by the instructor in class.

TOPICS	TIMELINE
Course Introduction	1/14
Darwinian Evolution (Chapter 22)	
Darwinian Evolution (Chapter 22)	1/16
Evolution of Populations (Chapter 23)	1/21
Evolution of Populations (Chapter 23)	1/23
The Origin of Species (Chapter 24)	1/28
The Origin of Species (Chapter 24)	1/30
History of Life on Earth (Chapter 25)	
History of Life on Earth (Chapter 25)	2/4
<b>Exam 1 (Chapters 22-25)</b>	2/6
Phylogeny (Chapter 26)	2/11
Phylogeny (Chapter 26)	2/13
Overview of Prokaryotes -Bacteria and Archaea (Chapter 27)	2/18
Overview of Eukaryotes - Protists (Chapter 28)	2/20
Plant Diversity I (Chapter 29)	2/25
Plant Diversity I (Chapter 29)	2/27
Plant Diversity II (Chapter 30)	3/4
<b>Exam 2 (Chapters 26-30)</b>	3/6
<i>SPRING VACATION</i>	<i>3/10-3/16</i>
Animal Diversity (Chapter 32)	3/18
Animal Diversity (Chapter 32)	3/20
Introduction to Invertebrates (Chapter 33)	3/25
Introduction to Invertebrates (Chapter 33)	3/27
Evolution of Vertebrates (Chapter 34)	4/1
Evolution of Vertebrates (Chapter 34)	4/3
<b>Exam 3 (Chapters 32-34)</b>	4/8
Principles of Animal Form and Function (Chapter 40)	4/10
Principles of Animal Form and Function (Chapter 40)	4/15
Animal Reproduction (Chapter 46)	4/17
Animal Reproduction (Chapter 46)	4/22
Animal Development (Chapter 47)	4/24
Animal Development (Chapter 47)	4/29
Special Topics Discussion and Review	5/1
<b>Final Exam 4 (Chapters 40,46-47)</b>	5/6

## Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

**Exams** –You will be given four in-class examinations. Each exam is worth 100 points. The exams will consist of a combination of multiple choice, true/false and short answer questions. Attendance is required for all exams. Any student found cheating on an exam will receive a zero for the exam and may face other disciplinary action. **Note: 882-E scantrons and pencils are required for every exam.**

**Recitation** – the recitation period will be used as a review session. Short activities/assignments will be given to assess one's understanding of the class material. Attendance and participation in the recitation session will account for 50 total points.

**Grading Matrix:**

Instrument	Value (points)
Exam 1	100
Exam 2	100
Exam 3	100
Exam 4	100
Recitation	50
<b>Total:</b>	<b>450</b>

**Grade Determination:**

- A = 90% or better
- B = 80 – 89 %
- C = 70 – 79 %
- D = 60 – 69 %
- F = less than 60%

**University Policies and Procedures****Students with Disabilities (ADA Compliance):**

*The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Building 2 or call Laura Smith at 972-780-3632.*

**Student Evaluation of Teaching Effectiveness Policy:**

*The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.*

**Exam Policy:**

*Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).*

**Academic Integrity:**

*Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at <http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic%20Integrity.pdf> for complete provisions of this code.*

**Attendance and Participation Policy:**

*The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.*

**Diversity/Tolerance Policy:**

*Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.*