

**University of North Texas at Dallas**  
**Spring 2015**  
**SYLLABUS**

<b>BIOL 1720: Biology for Science Majors II    3Hrs</b>	
<b>Department of</b>	<b>Health and Life Sciences</b>
<b>Division of</b>	<b>Liberal Arts and Sciences</b>
<b>Instructor Name:</b>	Dr. Donna Hamilton
<b>Office Location:</b>	DAL2 250
<b>Office Phone:</b>	972-338-1522
<b>Email Address:</b>	Donna.hamilton@untDallas.edu
<b>Office Hours:</b>	<b>MW 10-11:30; TR 8:00-9:00</b>
<b>Virtual Office Hours:</b>	N/A
<b>Classroom Location:</b>	DAL 240
<b>Class Meeting Days &amp; Times:</b>	<b>TR 10-11:20; R 9-9:50</b>
<b>Course Catalog Description:</b>	An integrated approach to Mendelian and molecular genetics, evolutionary biology, anatomical, physiological and functional aspects of nutrition, gas exchange, transport, reproduction, development, regulation, response and ecology of microorganisms, plants and animals. For students preparing for advanced study in the biological sciences.
<b>Prerequisites:</b>	<b>None</b>
<b>Co-requisites:</b>	<b>BIOL 1720 D 290 and BIOL 1740 D 090</b>
<b>Required Text:</b>	<b><i>Biology</i> by Campbell, Reece, Urry, Cain, Wasserman, Minorsky and Jackson; 10<sup>th</sup> ed.</b>
<b>Recommended Text and References:</b>	
<b>Access to Learning Resources:</b>	UNT Dallas Library: phone: (972) 338-1616; web: <a href="http://www.untDallas.edu/our-campus/library">http://www.untDallas.edu/our-campus/library</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 give students preparing for advanced study in the biological sciences a broad base of knowledge within molecular genetics, evolutionary biology, anatomical, physiological and functional aspects of nutrition, gas exchange, transport, reproduction, development, regulation, response and ecology of microorganisms, plants and animals
<b>Student Learning Objectives:</b>	
1	Understand basic concepts of science as a way of knowing cell biology, biochemistry, molecular biology, genetics, and evolutionary biology.
2	Develop skills in scientific reasoning and experimental design.
3	Develop skills in scientific writing.
4	Practice and demonstrate competence of Common Core Objectives including critical thinking skills, communication skills, empirical and quantitative skills and teamwork

## Course Outline

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

TOPICS	Timeline	Other Deadlines
Review of Biology I topics	Week of 1/19/2015	Bioliteracy survey
Chapter 15: The Chromosomal Basis of Inheritance	Week of 1/26/2015	Homework handout
Chapter 16: The Molecular Basis of Inheritance		
Chapter 17: Gene Expression: from Gene to Protein	Week of 2/2/2015	HW 15,16
Test 1	Week of 2/9/2015	HW 17
Chapter 22: Decent with Modification	Week of 2/16/2015	
Chapter 23: The Evolution of Populations	Week of 2/23/2015	HW 22; JA 1
Chapter 25: The History of Life on Earth		
Chapter 26: Phylogeny and the Tree of Life	Week of 3/2/2015	HW 23,25
Test 2	Week of 3/9/2015	HW 26
Spring Break	Week of 3/16/2015	
Chapter 27: Bacteria and Archaea	Week of 3/23/2015	
Chapter 28: Protista		
Chapter 29: Plant Diversity I	Week of 3/30/2015	HW 27; 28
Chapter 30: Plant Diversity II		
Chapter 31: Fungi	Week of 4/6/2015	HW 29;
Test 3	Week of 4/13/2015	HW 30; JA 2
Chapter 32: An Overview of Animal Diversity	Week of 4/20/2015	
Chapter 40: Basic Principles of Animal Form and Function	Week of 4/27/2015	HW 32; RP Topic
Chapter 41: Animal Nutrition		
Chapter 42: Animal Reproduction	Week of 5/4/2015	HW 41;49;Draft RP
Chapter 49: Nervous Systems		
Test 4	Finals Week	HW 42; 49

## Course Evaluation Methods

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

**Bio-literacy Survey** – *Students will complete this online survey 2x during the semester: the week of January 19<sup>th</sup>, 2015 and again the week of May 4, 2015. Points are awarded for completion of the survey, not the score received.*

### Exams

**Chapter Homework** – *assigned problems from the Scientific Skills sections*

**Journal Article Reviews** – *a synthetic summary and review of a recently published journal article following the guidelines provided in the grading rubric.*

**Review Paper**– *a synthetic review of recent research on an approved topic and following the guidelines provided in the grading rubric*

**Class Participation** – *daily attendance and participation in class discussions*

### Grading Matrix:

Instrument	Value (points or percentages)	Total
Bio-literacy Survey	2@25 pts ea	50
Exams	4 exams @ 100 pts ea	400
Chapter Homework	15 @ 10 pts ea	150
Journal Article Reviews	2 @ 25 pts ea	50
Review Paper Topic	20	20
Review Paper Draft	30	30
Review Paper Final	50	50
Class Participation/ Discussion	150	150
<b>Total:</b>		<b>900</b>

**Grade Determination:**

- A = 900 – 810 pts; i.e. 90% or better
- B = 809 – 720 pts; i.e. 80 – 89 %
- C = 719 -- 630 pts; i.e. 70 – 79 %
- D = 629 – 540 pts; i.e. 60 – 69 %
- F = 539 pts or below; i.e. 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 course and I consider the SETE to be an important part of your participation in this class.

**Assignment Policy:**

All assignment are due at the start of class with **no credit given for late submission**. Unless otherwise indicated, all assignments are due in hard copy and may not be emailed for credit. There are no guaranteed opportunities for any points other than those listed above.

**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\\_Integrity.pdf](http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf) for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

**On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.**

**Bad Weather Policy:**

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website [www.unt.edu/dallas](http://www.unt.edu/dallas). Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

**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. If the absence is an excused absence as defined by university policy, points missed may be made up. Unexcused absences will not allow for any points to be made up. Students are also responsible to make up any work covered in class during an excused absence. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Students are expected to arrive on time for class and roll at the designated time. **Being tardy or absent will affect the points earned for attendance and thus your overall grade.**

**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.

**General Behavior:**

Students are expected to conduct themselves in a professional and appropriate manner. You should expect to be silent when others are speaking, give your full attention to the professor or speaker, and refrain from reading newspapers or other distracting materials during class time.

Tobacco products of any kind are not permitted in the classroom.

Cell phones should always be on silent during class time.

Laptops and tablets may be approved for use in class for note taking on a provisional case-by-case basis.

Food is not permitted in the classroom although drinks are allowed as long as they are in a closed lid container.