

**UNIVERSITY OF NORTH TEXAS AT
DALLAS SPRING 2016
SYLLABUS**

BIOL 1720: Biology for Science Majors II: Section : 001		3Hrs
Department of	Health and Life Sciences	Division of
		Liberal Arts and Sciences
Instructor Name:	Dr. Kelly Varga	
Office Location:	DAL2 306	
Office Phone:	972-338-1529	
Email Address:	Kelly.varga@untdallas.edu	
Office Hours:	Tuesday/Thursday- 1:00-2:30 Wednesday- 1:00-2:30	
Virtual Office Hours:	N/A	
Classroom Location:	DAL2 306	
Class Meeting Days &	MW 10:00-11:20 pm	
Course Catalog Description:	An integrated approach to cell and molecular biology with an emphasis on biological chemistry, cell structure and function, Mendelian and molecular genetics, and evolutionary biology. For students preparing for advanced study in the biological	
Prerequisites:	None	
Co-requisites:	BIOL 1710 D 290 and BIOL 1730 D 090	
Required Text:	<i>Biology by Campbell, Reece, Urry, Cain, Wasserman, Minorsky and Jackson; 10th ed.</i>	
Recommended Text and	To be announced if necessary	
Access to Learning Resources:	UNT Dallas Library: phone: (972) 338-1616; web: http://www.untdallas.edu/our-campus/library UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fhcg.follett.com	
Course Goals or Overview:		
	To give students preparing for advanced study in the biological sciences a broad base of knowledge within cell and molecular biology with an emphasis on biological chemistry, cell structure and function, Mendelian and molecular genetics, and evolutionary biology.	
Student Learning Objectives:		
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
Chapter 15: The chromosomal basis of inheritance-recap	Week of 1/18/16	Bio survey in class
Chapter 16 & 17: The molecular basis of inheritance and gene expression	Week of 1/25/16	
Chapter 22: Descent with modification: A Darwinian view of life	Week of 2/1/16	
Catch up/ Test 1	Week of 2/8/16 **EXAM 1 : 2/10/16	
Chapter 23: The evolution of populations	Week of 2/15/16 2/17/16	Journal review # 1 – find a Journal article over chromosomes and inheritance from the last 5 years
Chapter 26: Phylogeny and the tree of life	Week of 2/22/16	
chapter 27& 28: bacteria and archaea/ protists	Week of 2/29/16	***Thesis statement due in class on evolution
chapter 27& 28 continued Test 2	Week of 3/7/16 **EXAM 2: 3/9/16	
3/14- 3/20 NO CLASS: SPRING BREAK		
Chapter 29& 30: Plant diversity I & II	Week of 3/21/16	
Chapter 29& 30 cont./ Chapter 31: Fungi	Week of 3/28/16	
Chapter 32: An overview of animal diversity Test 3	Week of 4/4/16 **EXAM 3: 4/6/16	Journal review # 2 – find a journal article over a cool fungus from the last 5 years
Chapter 33: An introduction to the invertebrates	Week of 4/11/16	
Chapter 34: Origin and evolution of vertebrates	Week of 4/18/16	Rough draft of research paper on evolution due in class and on blackboard 4/18/16
Chapter 40: The basics of animal form and function.	4/25/16 4/27/16	Final research paper on Evolution due: in class and on blackboard to turnitin
First and Second group of presentations	5/2/16	Bio survey
Test 4- non cumulative	Week of 5/9/16 Final Exam 5/11/16 @ 10AM	

Course Evaluation Methods:

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

- **Exams-** *these will be comprehensive exams which will cover those topics discussed until the exam date. Final exam is not cumulative.*
- **Pop Quizzes-** *these will be administered at the beginning of class and within the first 10 minutes, hence if you are late you will only receive the time for those 10 minutes. These will be random and cover all topics discussed from the previous pop quiz/exam- which ever is the most recent.*
- **Thesis statement-** *a thesis statement for your research paper on evolution is due in class for points.*
- **Journal Article Reviews** – *a synthetic summary and review of a recently published journal article about a topics highlighted in the syllabus*
- **Research Paper**– *a synthetic review over your thesis statement about evolution, some example questions will be provided to work off of.*
- **Group Presentation**– *****THIS IS NOT OVER YOUR RESEARCH PAPER.** *Student groups will choose a phylum that was discussed this semester and give a 10 minute presentation in class*
- **Class Participation** – *daily attendance and participation in class discussions*

Grading Matrix:

Instrument	Value (points or percentages)	Total
Exams	4 exams @ 100 pts ea	400
Pop Quizzes	10 @ 10 pts ea	100
Journal Article Reviews	2 @ 25 pts ea	50
Thesis statement	5	5
Review Paper rough draft	75	75
Review paper final draft	20	20
Group Presentation	50	50
Class Participation/ Discussion	50	50
Laboratory	500	500
Total:		1250

Grade Determination:

A = 90% or better

B = 80 – 89 %

C = 70 – 79 %

D = 60 – 69 %

F = 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 assignments are due at the start of class with no partial credit given for late submission. Unless otherwise indicated, all assignments are due in hard copy and may not be emailed for credit. The only extra credit points given are for the 4 provided case studies.

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.

*****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. 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. 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.