

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

<b>BIOL 1730_001: Principles of Biology I Lab</b>			
Department of	Health and Life Sciences	Division of	Liberal Arts and Sciences
<b>Instructor Name:</b>	Dr. Kelly Varga		
<b>Office Location:</b>	DAL 2 249		
<b>Office Phone:</b>	972-338-1529		
<b>Email Address:</b>	Kelly.varga@untdallas.edu		
<b>Office Hours:</b>	<b>MW 10-11:30; or by appointment</b>		
<b>Virtual Office Hours:</b>	NA		
<b>Classroom Location:</b>	<b>DAL2 256</b>		
<b>Class Meeting Days &amp; Times:</b>	<b>M 2:30-5:20</b>		
<b>Course Catalog Description:</b>	BIOL 1730 is the laboratory section of the first half of a College two-semester 1 <sup>st</sup> year Biology sequence designed for science majors, students who require a biology class which will meet the requirements for Biology majors (e.g. premedical or other preprofessional 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>Co-requisites:</b>			
<b>Required Text:</b>	"Biology Laboratory Manual" Vodopich and Moore. 2011. McGraw Hill Publishing		
<b>Recommended Text and References:</b>	Will provide those if necessary		
<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@fhcg.follett.com">1012mgr@fhcg.follett.com</a>		
<b>Course Goals or Overview:</b>	The goal of this course is to provide the student with a broad understanding of biology at the cellular level		
<b>Learning Objectives/Outcomes:</b>			
1	Explore the natural sciences		
2	Be able to locate, evaluate and organize information including the use of information technologies		
3	Be able to think critically and creatively, and learn to apply different systems of analysis		
4	Develop problem solving skills that incorporate multiple viewpoints and differing contexts in their analysis		
5	Cultivate intellectual curiosity and self-responsibility, building a foundation for life-long learning		
6	Engage with a variety of others in thoughtful and well crafted communication		
7	Broaden and refine their thinking as a part of the give and take of ideas, seeking to better understand other's perspectives as well as their own		

## Course Evaluation Methods

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

Lab Practicals– You will be given two in-class practicals. Each practical is worth 100 points, and may consist of a combination of multiple choice, true-make true, short answer, and essay items. Attendance is required for all exams. Any student found cheating on any exam will receive a **zero (0)** for that exam and may face other disciplinary action(s).

### Grading Matrix:

Instrument	Value (points or percentages)	Total
Laboratory Practical 1	25%	100
Laboratory Practical 2	25%	100
Quizzes	25%	100
Lab Reports	25%	100
<b>Total</b>		<b>400</b>

### Grade Determination:

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

## Course Policies and Procedures

### Expected behavior

*All students are expected to be courteous, respectful and operate in a manner that is conducive to a positive learning environment. Disrespect of other students or the instructor is not tolerated and will result in appropriate disciplinary actions. There is to be no talking while the instructor is speaking and if you wish to make a statement or ask a question, please raise your hand. Be careful with all lab equipment. The equipment is to enhance your learning and understanding of certain concepts and is therefore a privilege, please treat it as such.*

### Laboratory Practical

*A combination of short answer and fill in the blank questions that require identification and mastery of lab topics and equipment.*

### Lab Quizzes

*Short (~10 min) quizzes designed to assess how well students have prepared for the week's lab by reading the background information, theories and procedures covered in the manual.*

### Lab Reports

*Data sheets where students record data and observations, perform necessary calculations and answer any discussion questions.*

### Late work and make-up exams

*All assignments are due at the beginning of class. Any work turned in after class begins, will be considered late. Late work will be accepted with a penalty of 20% of the total points possible subtracted from the grade. Late work must be turned in no later than the beginning of the following class period, or it will not be accepted. Exams will only be administered on the dates provided in the syllabus. If you will be observing a religious holy day that is coincidental with an exam, make your instructor aware before its observance. Make-up exams will be administered directly following the class period **preceding** the regular exam date.*

### Cell phone policy

*Do not use your cell phone in class; this includes calling, texting, internet surfing, and gaming. If your cell phone must be on during class, apply its "silent" settings. If you keep your phone on during class time, do not keep it on top of the table you are sitting at, please keep it in your pocket, purse, or bag. If your phone rings during an exam, even if the silent setting has been applied, you must turn in your exam immediately.*

### Cheating and plagiarism

*Cheating will not be tolerated in this course. If you are found cheating on an assignment or exam, you will not receive credit for the assignment/exam, and student services will be notified. Cheating includes using unauthorized material or devices on an*

exam, the work of another individual without proper citations, using larger portions of another's work, even with proper citations, and copying the work of a classmate. There are no exceptions to this policy.

### **Laptop policy**

You may use your laptop in class only to take notes. If it becomes apparent that laptops are being used by the class for activities other than lecture note taking, all laptop use will be prohibited during class time. Laptops are not to be used during exams. If you bring a laptop to an exam, it must remain in a bag and under the table.

## **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.

### **Assignment Policy:**

Assignments are intended to reinforce material covered in lecture, and prepare you for the exams. Collaborative efforts on completing the assignments are encouraged so long as all members of the collaboration contribute equally. As with all other graded assessments, cheating will not be tolerated. While collaborations are encouraged, each student must submit their own work, which cannot be identical to the work submitted by the other members of the collaboration.

### **Exam Policy:**

Laboratory Practicals should be taken as scheduled. No makeup practicals will be allowed except for documented emergencies (See Student Handbook). Any student caught cheating will automatically receive a 0 on the practical, and the instructor may pursue further disciplinary action. Any student arriving more than 10 min after the start of the practical will not be allowed to take the practical.

### **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. 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.

## **Tentative Schedule of Lab Topics – Fall 2015** **BIOL 1730: Principles of Biology**

**Course Outline**

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

<b><u>Date</u></b>	<b><u>Topic</u></b>
August 31	Ex. 2 – Measurements in science
September 7	No Lab- Labor Day
September 14	Ex. 3 – The microscope
September 21	Ex. 4 – The cell
September 28	Ex. 5 – The pH scale
October 5	Ex. 6 – Biologically important molecules
October 12	Ex. 9 – Diffusion and Osmosis
<b>October 19</b>	<b>Laboratory Practical 1</b>
October 26	Ex. 12 – Respiration
November 2	Ex. 13 – Photosynthesis
November 9	Ex. 14 – Mitosis Ex. 15 – Meiosis
November 16	Ex. 17 – Genetics
<b>November 23</b>	<b>Laboratory Practical 2</b>
<b>Dec 3</b>	<b>No lab</b>