University of North Texas at Dallas Fall 2015 SYLLABUS

Course Abbreviation/Number/Title/Semester Hrs BIOL 1082D_001: Biology for Educators: 3 Hrs

Department of Health and Life Sciences Division of Liberal Arts and Sciences Instructor Name: Dr. Kelly T. Varga Office Location: DAL 2 249 Office Location: DAL 2 249 Office Mones: 972-338-1529 Email Address: Kelly varga@untdallas.edu Office Hours: MW 10-11:30; or by appointment Virtual Office Hours: N/A Class Meeting Days & Times: Lecture: Tuesday 10:00 am - 11:20 am Laboratory: Tuesday 10:00 am - 3:30 pm Ourse Catalog Develop a meaningful and functional command of key biological concepts; an understanding of the interclationships among all living things; and a correlation between what pre-service teachers are required to learn and what they will be required to teach. Includes laboratory. BIOL 1082D is a general biology coarse with laboratory designated for elementary and middle school education majors for seeking teacher certification. Note: this course may not be used to satisfy the laboratory sectore requirement for majors in the College of Area and Sciences Prerequisites: None Correguistics: BIOL 1082D_390 Laboratory Required Text BIOL 1082D_390 Laboratory Laboratory Manual: Thompson R, Nugeut J, King MK, Piccolo KC. 2007. The Scope of Biology. From Cells to Ecosystems. K				_					
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Learning Objective/Outcome Assessments

Objective 1–3, 5: Students perform a collaborative project in which they research a human disorder and the means of treatment. They then, as a group, present the information they have collected to the class using a variety of media including Power Point, posters, or any combination of these. This project will introduce them to the tools required for research in many disciplines, and facilitate successful research in the future. Students are graded on the quality of content, quality of presentation, quality of references (two of which must be from a peer-reviewed journal and at least one from the internet), the extent to which they have though critically about the feasibility of treatment and degree of exploration.

Objective 4: During the third midterm, students are presented an essay question in which they compare and contrast mechanisms of evolution and determine which of the mechanisms will consistently lead to adaptive evolution and why.

Objective 6 and 7: Students will participate in a discussion of evolution and other explanations of the origin of life. Students will be graded on their participation.

Rubrics:

Objective 1–3, 5:

- 1. Content of paper (15 points)
 - a. Does the scope of the paper adequately represent our current understanding of the topic? (5 points)
 - b. Has the material been organized in a clear and accessible manner? (5 points)
 - c. Are the tables, figures, diagrams appropriate for the content? (5 points)
- 2. Discussion of feasibility of treatment (10 points)
- 3. Citations (5 points)
 - a. 5 citations
 - i. 2 peer-reviewed publications (2 points)
 - ii. 3 other publications, including one from the internet (1 point)
 - b. Are the publications cited correctly in the text and in the "Literature Cited" section? (2 points)

Objective 4:

Score:	Description
4 – Exceeds expectations	The student demonstrates a complete knowledge of foundational concepts and is able to use
	those concepts to explain evolutionary phenomena or predict genetic consequences
3 – Acceptable	The student demonstrates a complete knowledge of foundational concepts, but is unable to use
	those concepts to explain evolutionary phenomena or predict genetic consequences
2 – Below expectations	The student attempts the item, but fails to complete it. The student shows limited knowledge,
_	but is unable to adequately compare or predict from the available data
1 – Unacceptable	The student either does not attempt to complete the item, or is incapable of demonstrating
	knowledge of the basic concepts necessary to complete the item

Objectives 6 and 7:

Score:	Description
4 – Exceeds expectations	The student contributed to the discussion by offering his/her opinion, or by clarifying a topic of conversation. The information shared by the student will demonstrate that he/she has assimilated course curriculum and curriculum obtained from extra readings, or research, or both
3 – Acceptable	The student contributed to the discussion by offering his/her opinion, or by clarifying a topic of conversation. The information shared by the student will demonstrate that he/she has assimilated course curriculum
2 – Below expectations	The student contributed to the discussion, but the comments made by the student demonstrated a lack of understanding of course curriculum
1 – Unacceptable	The student did not contribute to the discussion

Lecture Schedule

DATE	ΤΟΡΙΟ	CHAPTERS
Aug 25, Aug 27	Introduction to Biology, Atoms and Molecules	1, 2
Sep 1, Sep 3	Biological Molecules, Cell Structure	3, 4
Sep 8, Sep 10	Cell Membranes, Energy Flow and Photosynthesis	5, 6, 7
Sep 15	Photosynthesis Cont. and Cellular Respiration	7, 8
Sep 17	Exam 1 (Sept 17)	2-8
Sep 22, Sep 24	Mitosis and Meiosis	9
Sep 29, Oct 1	Genetics and DNA	10, 11
Oct 6, Oct 8	Transcription and Translation, Biotechnology	12, 13
Oct 13	Biotechnology cont.	13
Oct 15	Exam 2 (Oct 15)	9-13
Oct 20, Oct 22	Evolution	14, 15
Oct 27, Oct 29	Evolution Cont., Systematics	16, 18
Nov 3, Nov 5	Viruses, Protists and Plants	19, 20, 21
Nov 10	Fungi	22
Nov 12	Exam 3 (Nov 12)	14-16, 18-22
Nov 17, Nov 19	Animals	23, 24
Nov 24	Physiological Systems	Selected from 32-41
Nov 26	NO CLASS: THANKSGIVING	
Dec 1	Physiological Systems cont.	Selected from 32-41
Dec 3	Exam 4 (Dec 3)	23-24, selected 32-41
Thursday Dec 11	Final Exam (10:00 am - 12:00 pm)	Comprehensive

Course Evaluation Methods

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

Exams (600 points) – You will be given four in-class examinations. Each exam is worth 100 points, and will 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). In addition, a final comprehensive exam is required and it is worth 200 points.

Laboratory (200 points) – You will perform experiments designed to give you hands-on real-world applications of the lecture material. In some cases, you will watch documentaries to complement the experiments. After each laboratory exercise, you will have an assignment worth 10 points. Each assignment is due at the beginning of the next lab session. In addition, you will work within a group of students to present 3 topics (20 points each) and one semester project (50 points). You do not receive a separate grade for lab, so the points received for the laboratory (out of 200) will be added into the lecture grade calculation.

Note: The lab is worth 25% of your final overall grade for the course. However, you must receive a passing grade (60% or higher) in the laboratory to receive a passing grade in the class.

Students must pass both the lecture and the lab independently to pass the course (i.e. if you fail the lab, you automatically fail the entire course and if you fail the lecture, you automatically fail the entire course).

Grading Matrix

Instrument	Value	Total points
Exam 1	12.5 %	100
Exam 2	12.5 %	100
Exam 3	12.5 %	100
Exam 4	12.5 %	100
Final Exam	25.0 %	200
Laboratory	25.0 %	200
Total	100 %	800

Grade Determination

 $\begin{array}{l} A = 90\% \mbox{ or better} \\ B = 80 - 89 \% \\ C = 70 - 79 \% \\ D = 60 - 69 \% \\ F = less \mbox{ than } 60\% \end{array}$

Course Policies and Procedures

Late work and make-up exams

No late assignments will be accepted without obtaining prior authorization or proving validity of absence. In such a case, the assignment should be turned in at the beginning of the following lab session (no later than one week after the due date) and 10% of the points will be deducted. Exams will only be administered on the dates provided in the syllabus. You will NOT be allowed to leave the classroom and return during the exam (i.e. go to the restroom before the exam!). 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 during 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.

Laptop policy

You may use your laptop in class to take notes, but **only to take notes**. If it becomes apparent that laptops are being used by the student 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.

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.

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). Any student requesting academic accommodations based on a disability is required to register with Disability Services each semester. A letter of verification for approved accommodations can be obtained from this office. Please be sure the letter is delivered to me as early in the semester as possible. Disability Services is located in the Student Life Office in DAL2, Suite 200 and is open 8:30 a.m. – 5:00 pm, Monday through Friday. The phone number is (972) 338-1775.

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 member 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 <u>cannot</u> be

identical to the work submitted by the other members of the collaboration. Assignments should be turned in on time. Late assignments will be graded, but with a penalty of 10% each day it is late.

Exam Policy

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). Any student caught cheating will automatically receive a 0 on the exam, and the instructor may pursue further disciplinary action. After the first exam is turned in, no more exams will be distributed to students that arrive late to the exam period.

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 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 Campus main voicemail number (972) 780-3600 or search postings on the campus website <u>www.unt.edu/dallas</u>. 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 and 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 that violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Use of Electronic Gadgets in the Classroom

You are allowed to take notes using laptops/iPads/other electronic devices. You are allowed to record the lectures. The instructor reserves the right to ask you to discontinue use of an electronic device if it becomes disruptive to others in the classroom.

Food/Drink Policy

No food or drinks are allowed in the classroom or the laboratory, except for water in the classroom only.