

## **BIOL1120-002: Survey of Biology Spring 2012**

Course Name: Survey of Biology

Credit hours: 3

Prerequisite: ENGL 1100 or 1110; MATH 1180 or higher Natural Sciences core course

Meeting: TR 4-5:15PM WO1205

Instructor: Mrs. Brenda Leady

Office Location: WO1217

Office Phone: (419)530-2181

Office Hours: M-Th 9am-Noon (or by appointment)

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### Course Description:

A survey of major biological principles and phenomena in various plants and animals with emphasis on man. (not for major credit).

### Required:

Biology For A Changing World by Michele Shuster; Janet Vigna; Gunjan Sinha; Matthew Tontonoz  
Turning Technology's Response Card RF

### Course Website:

BlackBoard contains all class information – grades, assignments, lecture handouts, etc.

### **The following rules apply to all the exams and classes of this course:**

1. I expect your full attention in class. When you are in class, you are there to pay attention and participate. Phones, iPods, pagers are turned off and ear buds are out. If you have an important call, take it outside the classroom with a minimum of disruption.
2. Examinations start and end at specified times. Under no circumstances will students be admitted to an exam after the first person has left the exam. *Additional time will not be given to students who come late to an exam.*
3. Be sure to bring two number 2 (#2) pencils, an eraser, and your valid UT student ID card to an examination.
4. All the examinations must be taken at the scheduled time. Missed exams can be made up as an essay exam covering the same material.
5. Please be considerate of your fellow students. During the time of an examination, quiet is to be maintained at all times. To be fair to everyone, I expect cell phones, pagers, iPods, etc. to be turned OFF and out of sight. Earbuds are to be removed. Anyone found looking at a digital device during an exam will be given an F in the course for academic dishonesty.
6. If the University is closed on a day scheduled for a test, your test will be given during the next time class is held.
7. I will post an answer key in the hall to check your bubble sheets. Errors in grading should be brought to my attention within one week of the time you receive your corrected examination. I do not allow you to keep the actual exam questions but you may make an appointment to look over missed questions.
8. If you have documentation from the Office of Accessibility, please see me before the first test to schedule your exams. Extended time is not given during the regular in class exams.

### Evaluation:

#### Clickers: DEADLINE TO BE REGISTERED IS January 20

We will use Turning Technologies Response Card RF in class every day. I will ask several questions during the class period. A correct response is worth 1 point. An incorrect response is worth 0.5 points. I will take the final possible point total and adjust it by 15% to take into account missed classes or missed questions. There are no excused absences unless it is a several day absence with a medical excuse. The final point total will be 10% of the class grade. For example, if we accumulate 188 clicker points total. I drop that 15% so that 159.8 is a perfect score. Anyone over 159.8 does not get extra points. If you had 148 points that is  $148/159.8 = 0.93 \times 10$  points = 9.3% for your clicker part of the final grade. A handout will be available on BlackBoard explaining the details of registering your clicker.

#### Online discussion board

It is important that you be able to relate what we do in class to your life and the real world. To this end, I will set up an online discussion board where you will post recent news articles about scientific discoveries or events. There will be specific rules for posting information and commenting on posts to receive credit. I expect thoughtful, logical, respectful postings. Your full participation in the discussion boards is worth 5% of your class grade.

### Regular Exams:

4 multiple choice regular exams will be given. These exams are 50 multiple choice questions each worth 2 points. They will not be comprehensive. Exams end at the end of the class period. If you arrive late, the exam is still due at the end of the class period. If you come in after the first person has left the exam, you will take the essay exam at a later time.

Exams taken at any time other than your regularly scheduled class time (early or late) are in essay format. Ten (10) essay questions will cover the same material as the exam.

4 exams x 100 points each = 400 points = 85% of class grade

### Final Exam:

The final exam is optional. If you are satisfied with your grade, you do not need to take the final. If you want to improve your grade, you may take the final. The final will consist of 100 multiple choice questions covering the entire semester. Each question is worth 1 point. The final will replace the lowest of the 4 regular semester exams. If the final is lower than one of your 4 in class exams, it will not count against you.

Clickers	10%
Discussion Board	5%
Regular exams	85%
	100%

### Academic dishonesty:

Academic dishonesty is a serious topic at the University of Toledo. The department policy on academic dishonesty is attached to the end of this syllabus.

Final grades will be determined based on the following scale.

Grade	% Correct
A	90-100
A-	87-89
B+	83-86
B	79-82
B-	75-78
C+	71-74

Grade	% Correct
C	70-67
C-	66-63
D+	62-59
D	58-55
D-	54-51
F	50-0

### Other notes:

If you stop coming to class, you will receive an F unless you

- Drop the class by January 17<sup>th</sup>
- Withdraw from the class at the registrar's office by March 23<sup>rd</sup>

The grade of **Incomplete (IN)** is assigned only in extraordinary cases when unexpected conditions prevent the student from completing the requirements of the course within the term of enrollment. In order to receive an IN you must be passing the course and make arrangements with me to complete your work.

**BIOL1120 Spring 2012**

Session	Chapter	
January 10	1: Process of Science	
January 12	2: Chemistry and molecules of life	
January 17	Case study – Acids, pH and buffers	January 17 – Drop deadline
January 19	3: Cell structure and function	Register clicker by January 20
January 24	3: Cell structure and function	
January 26	4: Nutrition, Metabolism, Enzymes	
January 31	Exam 1 (1, 2, 3, 4)	
February 2	6: Dietary Energy and Cellular Respiration	
February 7	Case study – Another can of bull?	
February 9	7: DNA structure and replication	
February 14	7/8	
February 16	8: Genes to proteins	
February 21	9: cell division and mitosis	
February 23	Case study – The would be vampire	
February 28	Exam 2 (6, 7, 8, 9)	
March 1	10: Genetic mutations and cancer	
March 6	Spring Break – NO CLASS	
March 8	Spring Break – NO CLASS	
March 13	11: Single-gene inheritance and meiosis	
March 15	12: Complex inheritance	
March 20	13: Stem cell and cell differentiation	March 23 – withdrawal deadline
March 22	Case study – The Wolfman	
March 27	Exam 3 (10, 11, 12, 13)	
March 29	14: Natural selection and evolution	
April 3	14	
April 5	15: Nonadaptive evolution and speciation	
April 10	16: Evidence for evolution	
April 12	17: Life on Earth	
April 17	17	
April 19	20: Human evolution	
April 24	Case Study – Tale of 3 Lice	
April 26	Exam 4 (14, 15, 16, 17, 20)	

**FINAL EXAM May 4 2:45-4:45pm Friday**

## Policy Statement on Academic Dishonesty

Academic dishonesty will not be tolerated. Among the aims of education are the acquisition of knowledge and development of the skills necessary for success in any profession. Activities inconsistent with these aims will not be permitted. Students are responsible for knowing what constitutes academic dishonesty. If students are uncertain about what constitutes plagiarism or cheating they should seek the instructor's advice. Examples of academic dishonesty include, but are not limited to:

- Plagiarizing or representing the words, ideas or information of another person as one's own and not offering proper documentation;
- Giving or receiving, prior to an examination, any unauthorized information concerning the content of that examination;
- Referring to or displaying any unauthorized materials inside or outside of the examination room during the course of an examination;
- Communicating during an examination in any manner with any unauthorized person concerning the examination or any part of it;
- Giving or receiving substantive aid during the course of an examination;
- Commencing an examination before the stipulated time or continuing to work on an examination after the announced conclusion of the examination period;
- Taking, converting, concealing, defacing, damaging or destroying any property related to the preparation or completion of assignments, research or examination;
- Submitting the same written work to fulfill the requirements for more than one course.

While academic integrity is particularly the responsibility of the student, the faculty members also have a responsibility. Assignments and tests should be constructed and proctored so as to discourage academic dishonesty. Faculty members are expected to inform their students explicitly as to what materials and procedures are authorized for use in the preparation of assignments or in examinations (e.g., the use of calculator, computer, text materials, etc.). Should cases of academic dishonesty be found among students, the instructor may choose to counsel the student, or the following sanctions may be imposed:

- The student may be assigned an F for the work in question.
- The student may be assigned an F for the course. In this case the instructor should inform the Dean and the student of this action. The Dean will make certain that the student receives the F grade and is not permitted to withdraw from the course.
- The student may be placed on probation or suspended for some definite period of time, dismissed or expelled by the Dean if either the seriousness of the offense or a record of repeated offenses warrants it. A notation that such a sanction has been imposed will be made part of the student's permanent record. It is expected that the Dean will consult with the instructor and the student in making such a judgment, and that the Dean will notify the student of the sanction imposed and of the appeals procedure.

A student found to be academically dishonest by a faculty member may appeal according to procedures approved by the respective colleges. The procedures for making a final appeal to the Student Grievance Committee may be found in the Student Handbook.