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Biology Syllabi Spring 2012

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2012

### 127-04-07-08 Life: Investigation Laboratory II

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# Biology 127 Life Investigation Lab II Syllabus and Course Requirements

## Spring 2012

Section	Day and Time	Instructor
01	T 11:30 – 1:20	Roy
02	T 1:30 – 3:20	Roy
03	T 3:30 – 5:20	Tehrani
04	W 12:30 – 2:20	Matre
05	W 7:00 – 8:50	Nikolaidis
06	cancelled	
07	R 2:30 – 4:20	Matre
08	F 10:30 – 12:20	Matre

Laboratory Instructors:

**Dr. Nancy Matre:** Albers 111, 745-3828

**Dr. Nikolaos Nikolaidis:** Albers 1, 745-3823

**Dr. Pamela Roy:** Albers 112, 745-3806

**Ms. Kathy Tehrani:** Albers 105A, 745-3494

Required Text: Investigating Life, Pamela W. Roy

**Course Goals:** Students will learn some basic biological concepts necessary for personal well-being including nutritional requirements and the impact of fast food on good nutrition, the impact of alcohol on your brain, how your brain receives sensory input, reflexes and how the body reacts to stimulus, and the cardiovascular system as seen through the EKG. The second half of the semester will look at the major theme of evolution, including the evidence for evolution and how we may be modifying evolution. Students will finish by understanding the impact that humans have on their environment by looking at endangered species at the Cincinnati Zoo and Botanical Garden.

Attendance is mandatory. There are seven different lab sections including one that meets on Wednesday night when there are very few classes scheduled. If you miss your class for a university-approved function, you can make up the lab in any other section if you notify your instructor and the instructor of the other section. If you do not make up the lab in another section, you will not receive team or individual points for that lab. If you have a major illness that requires hospitalization or a family emergency that requires you to go home, you or your family should notify the Dean of your college. S/he will send an official notification to all of your professors. You can arrange to make up the material when you are back on campus. In past years, some students have gone to other sections several times, without permission. **If you routinely miss the class that you have signed up for,** your instructor will ask you to drop the class because an instructor is not responsible for assigning you a grade when they have not personally witnessed your performance on tests, quizzes, and team assignments.

**Snow Days:** If class is cancelled because of snow, you will need to make up the work in another lab. You can attend any of the remaining labs that week or attend a make-up lab from 11am -1pm on Saturday.

Quizzes and Tests are given at the start of class. Since tests do not take the whole lab time, there is always a lab following the test. If you do not stay for the lab activity

that follows the test, 15 points will be deducted from your test score. **Leaving a test for any reason once the test has started will result in a zero for that test. Bathroom breaks and water breaks should be taken care of before the test begins.** Quiz questions are handed out at the start of class and will take the first five minutes, so be on time, as quizzes cannot be taken later. Yes, this is a way to get you to read the material and get to class on time. Quizzes will include questions from the previous lab and the lab for the current day.

Laptops, cell phones, beepers, pagers, other handheld electronic devices: so that your classmates are not distracted and lab interrupted, I ask that you turn off all electronic devices during lab, including laptops. Lab is a time for the exchange of knowledge free from the distraction of other media. Please be ready to take notes and discuss the material face-to-face and voice-to-voice.

No handheld devices (such as cell phones, calculators, beepers, or pagers) or devices attached to your ear (such as ipods or bluetooth) may be used during the exams. Anyone found to have any of these devices out during an exam will be told to leave the exam and will receive a zero on the exam. You will need to put all electronic devices away (none are allowed on your person during the exam). If you do not have a backpack to place these in, you may leave them with me during the exam.

Grades include four tests (50 points each), 8 quizzes (5 points each), a Team Unpronounceable Ingredient Project (50 points), a Team Cladogram Project (35 points), a Team GMO Paper (35 points), and a Zoo Project (50 points). A+=397-410, A-=367-378, B+=355-366, B=338-354, B-=326-337, C+=314-325, C=297-313, C-=285-296, D+=273-284, D=256-272, D-=244-255, F=<244.

Academic Misconduct: The Xavier University Handbook states that "...violations of certain standards of ethical behavior will not be tolerated at Xavier University. These include theft, cheating, plagiarism, unauthorized assistance in assignments and tests, unauthorized copying of computer software, the falsification of results and material submitted in reports...". The first incidence of academic misconduct will result in a zero for the assignment. The second incidence will result in failure of the course. When the misconduct involves two or more students, all students involved will receive a zero the first time and an F for the course the second time. It does not matter if you copied the work or allowed it to be copied. Both are academic misconduct, and will receive the same treatment.

In Biology 127, academic misconduct is defined as cheating, plagiarism, or helping someone cheat or plagiarize.

**Cheating includes:**

1. the use of handheld electronic devices during a quiz or test. Handheld devices include calculators, cell phones, computers, or pagers. These devices must be completely put away in your backpack. You cannot have them physically on your person during an exam or quiz.
2. the use of notes during a quiz or test
3. asking another student to tell you the questions or answers to a question on a quiz or test
4. giving/telling another student the questions or answers to a question on a quiz or test
5. asking another student to tell you the answers to assignments/projects
6. providing another student with the answers to assignments/projects
7. asking another student to let you copy the answers to assignments/projects
8. allowing another student to copy the answers to assignments/projects

**Plagiarism includes:**

1. copying the work of another student, past or present, and submitting it as your own
2. copying material from a journal, magazine, book, or the internet, and submitting it as your own

The first incidence of academic misconduct will result in a zero for the assignment/test/quiz. The second incidence will result in failure of the course. When the misconduct involves two or more students, all students involved will receive a zero the first time and an F for the course the second time. It does not matter if you copied the work or allowed it to be copied. Both are academic misconduct, and will receive the same treatment.

**Schedule of Labs**

<b>Lab/Dates</b>	<b>Activity</b>
<b>Lab 1</b> Jan 10, 11, 12, 13	Syllabus explained
	Nutrition, Nutrition Labels
	BMI/BMR
<b>Lab 2</b> Jan 17, 18, 19, 20	Quiz (5 points)
	Fast Food
	Sugar in Pop
<b>Lab 3</b> Jan 24, 25, 26, 27	Quiz (5 points)
	Those Unpronounceable Ingredients Project (50 points)
<b>Lab 4</b> Jan 31, Feb 1, 2, 3	Test #1 (50 points)
	Your Brain on a Case of Beer
	Calculating your BAC
<b>Lab 5</b> Feb 7, 8, 9, 10	Quiz (5 points)
	Your Senses
	Reflexes
<b>Lab 6</b> Feb 14, 15, 16, 17	Quiz (5 points)
	Heart and Brain
	EKG
<b>Lab 7</b> Feb 21, 22, 23, 24	Test #2 (50 points)
	Evidence for Evolution/ fossils/ comparative anatomy
<b>Lab 8</b> Feb 28, 29, March 1, 2,	Quiz (5 points)
	Introduction to the Zoo Project and hand out Zoo Tickets
	Evolution of the chocolate bar
	Practice using a micropipettor
<b>March 5-9</b>	<b>Spring Break</b>
<b>Lab 9</b> March 13, 14, 15, 16,	Quiz (5 points)
	Adaptations
	Evidence for evolution/Comparative biochemistry of 12s rRNA
	Team Cladogram Project Due (35 points)
<b>Lab 10</b> March 20, 21, 22, 23	Test #3 (50 points)
	GMO extraction and PCR of DNA from food
<b>Lab 11</b> March 27, 28, 29, 30	Quiz (5 points)
	Gel Electrophoresis of ?GMO DNA

<b>April 5-9</b>	<b>Easter Break: No lab this week:</b>
<b>Lab 12</b> April 10, 11, 12, 13	Quiz (5 points)
	Review and Analyze Gel electrophoresis Data
	Team GMO Results/Conclusion Paper : Due (35 points)
	<b>Individual Zoo Project due at Zoo Gate by 5pm on Friday April 13<sup>th</sup> (50 points)</b>
<b>Lab 13</b> April 17, 18, 19, 20	GMO and Zoo projects returned and discussed. Review for final exam
<b>Lab 14</b> April 24, 25, 26, 27	Test #4 (50 points)

**Computers** in Albers 1 are provided for your convenience to work on team projects during class. **Misuse of computers** will result in loss of team and/or individual points at the discretion of the instructor. **Misuse** includes using the computers for personal email or instant messaging, or altering settings.