

**Syllabus**

Lab Instructors: Dr. Al Foletta (Office Hours: MWF 10:00-11:00, LS5)  
Jean Unruh (Office Hours: TTH 11:00-12:00, LS11)

**Textbook:**

Teresa Audesirk & Gerald Audesirk, Biology: Life On Earth, 1997, 4th Ed.

**Lab Manual:**

Stanley E. Gunstream, Biological Explorations: A Human Approach, 1997, 3rd Ed.

**Course Objectives:**

1. To gain an understanding of basic biological terms and principles.
2. To study the structure and function of various life forms and in particular human body systems.
3. To become aware of the diversity of life and become familiar with hierarchical schemes of biological organization and taxonomy.
4. To be able to recognize and identify different animals and plants through the use of lab specimens, slides, overheads, etc.
5. To perform basic hands-on experiments in lab to increase your understanding of life.

**Grading:**

Lecture: 60%

Lab: 40% Laboratory grading will consist of 3 lab exams, 14 lab reports, and weekly quizzes.

Lab Exams:	80 points each x 3 =	240 points
Lab Reports:	10 points each x 14 =	140 points
<u>Critical Thinking:</u>	<u>10 points each x 2 =</u>	<u>20 points</u>
Total		400 points

Lab quizzes worth 3 points will be given weekly. These will be added to your grade as extra credit. Critical thinking essay questions worth 10 points each will be part of lab exams 2 & 3. Late labs will have points deducted.

Your lab scores will be given to the lecture instructor who will determine your final grade for the class.

**Absences and Tardies:**

You are expected to attend all class sessions. Two or more absences in lab will put you in jeopardy and you will be considered for being dropped from the class. If you are seriously ill or have a major emergency, call the switchboard (638-3641) and leave a note in your instructor's box. Tardies are a partial absence and three tardies will be treated as an absence.

BIOLOGY 1 - LAB ASSIGNMENTS-Biological Explorations, Third Ed.

<u>week</u>	<u>lab#</u>	<u>topic and exercise # in lab manual</u>
1.	Laboratory 1	- The Microscope and The Metric System Exercise 2
2.	Laboratory 2	- The Cell Exercise 3
3.	Laboratory 3	- Cell Division Exercise 9
4.	Laboratory 4	- Organization of the Body and Histology Exercise 12
5.	Laboratory 5	- Chemistry of Cells and Osmosis & Diffusion Exercise 4 and Exercise 6
6.	Lab Exam 1	
7.	Laboratory 7	- Fetal Pig Dissection and The Digestive System Exercise 13 and Exercise 17
8.	Laboratory 8	- Circulation Exercise 14
9.	Laboratory 9	- Plants Exercise 25
10.	Laboratory 10	- Structure of Flowering Plants Exercise 26
11.	Laboratory 11	- Urogenital Systems Exercise 21 and Exercise 22
12.	Lab Exam 2	
13.	Laboratory 13	- Heredity and Molecular & Chromosomal Genetics Exercise 10 and Exercise 11
14.	Laboratory 14	- Respiration Exercise 16
15.	Laboratory 15	- Nervous System Exercise 18
16.	Laboratory 16	- Fertilization and Development Exercise 23
17.	Lab Exam 3	