**COURSE**: BSC 1020 Human Biology Lab

**INSTRUCTOR**: Bethany Derousie **Email:** bethanyderousie@sjrstate.edu

**TEXTBOOK**: Human Biology: Laboratory Manual, by Sylvia Mader 12th Edition

**SAFETY FIRST!** This class includes a major laboratory component. You will be required to have a signed Student Safety Contract on file. Improper behavior and/or disregard for safety procedures will result in dismissal from the laboratory and a discipline referral written (safety violation).

**COURSE DESCRIPTION:** This course is designed to reinforce and supplement the material presented in the lecture by providing a hands-on setting in which students will work.BSC 1020L along with co-requisite BSC 1020 fulfill four of the eight General Education hours in the science area. Through **St. Johns River State College.**

**GRADING POLICY:** The grading scale is. A = 90-100; B=80-89; C=70-79; D=60-69; F <60

**ACADEMIC INTEGRITY STATEMENT:** *Students in this class must know, observe, and not compromise the principles of academic integrity. It is not permissible to cheat, to fabricate or falsify information, to submit the same academic work in more than one course without prior permission, to plagiarize, to receive unfair advantage, or to otherwise abuse accepted practices for handling and documenting information. The grade for this course includes the judgment that the student’s work is free from academic dishonesty of any type. Violations or infractions will be reported to the Vice President for Student Affairs and may lead to failure of the course and other sanctions imposed by the College.*

**ATTENDANCE POLICY:** *When the equivalent of three 50-minute class periods have been missed (regardless of the reason) the instructor may withdraw the student from the course after the fourth 50-minute absence.  Students will be sent an official attendance warning through the online Early Alert system before being withdrawn by an instructor.*

**DISABILITY SERVICES STATEMENT** *Students with disabilities who require a note taker or other accommodations should notify their instructor as soon as possible so those accommodations can be coordinated with the appropriate office.  Students who would like to be a note taker should notify their instructor as well.*

**CLASSROOM RULES: All school rules** apply (pay particular attention to the RHS 5 “Absolutes”).

## Do not do anything that endangers the health and safety of yourself or others.

(ex. not following lab protocols, not using equipment properly, adjusting gas lines, etc.)

## Do not do anything that can interferes with the education of yourself or others.

(ex. cheating (copying homework or test answers), not coming prepared to class, disrupting class, etc.)

## LATE WORK WILL NOT BE ACCEPTED. You are given the due dates at the start of the semester, and allowed to turn assignments in early. If you “think you will be sick on a due date” you will need to turn the assignment in early or e-mail it before class time on the day it is due.

**STUDENT LEARNING OUTCOMES:**  During this course, students will be able to…

The student should have an understanding of and be familiar with the principles of biological science and basic

biological lab procedures. The students should also be able to understand and discuss:

1. The scientific method and basic research.
2. The use of the light microscope.
3. Cell anatomy and physiology.
4. Human body tissues.
5. Human gross anatomy and the major organ systems.
6. Human body physiology.
7. Human genetics and inheritance.

**Weekly Schedule & Personal Grade Calculations**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | **LAB** *(deadlines/test dates)* | **SLO** | **Worksheet** | **+** | **Quiz** | = | **Total** |
| 1/7-1/9 | Human Development | 13 | 20 | **+** | *(1/14)* 30 | **=** | 50 |
| 1/12-1/16 | Microscope Examination of Cells | 23 | 20 | **+** | *(1/21)* 30 | **=** | 50 |
| 1/20-1/23 | Microscope Examination of Tissues and Organs | 2345 | 20 | **+** | *(1/28)* 30 | **=** | 50 |
| 1/26-1/30 | Diffusion, Osmosis, and Tonicity | 23 | 20 | **+** | *(2/4)* 30 | **=** | 50 |
| 2/2-2/6 | Histology of Endocrine Glands, Gastrointestinal Tract, Liver, and Pancreas | 23 | 20 | **+** | *(2/11)* 30 | **=** | 50 |
| 2/9-2/13 | HEALTH FAIR INTRODUCTION AND RESEARCH TIME | | | | | | |
| 2/17-2/20 | Infectious Diseases or Infectious Diseases and Immunology **Activity** | 2356 | 20 | **+** | *(2/25)* 30 | **=** | 50 |
| 2/23-2/27 | Patterns of Inheritance | 7 | 20 | **+** | *(3/4)* 30 | **=** | 50 |
| 3/2-3/6 | Genetic Counseling | 7 | 20 | **+** | *(3/11)* 30 | **=** | 50 |
| 3/9-3/13 | Measurements of Blood Pressure | 56 | 20 | **+** | *(3/25)* 30 | **=** | 50 |
| 3/16-3/20 NO SCHOOL SPRING BREAK | | | | | | | |
| 3/23-3/27 | Cardiovascular System and Physical Fitness | 56 | 20 | **+** | *(4/8)* 30 | **=** | 50 |
| 3/30-4/4 | Musculoskeletal System | 56 | 20 |  | *(4/15)* 30 |  | 50 |
| 4/7-4/10 | Nutrition, Assessment, BMR, and Body Composition | 6 | 20 |  |  |  | 50 |
| 4/13-4/17 | Chemical Aspects of Digestion. | 56 | 20 |  | *(4/22)* 30 |  | 50 |
| 4/20-4/24 | Homeostasis | 56 | 20 |  | *(4/29)* 30 |  | 50 |
| 4/27-5/1 | Nervous System and Senses | 56 | 20 |  | *(5/6)* 30 |  | 50 |
| 5/4-5/8 | **Health Fair Preparation &/or Lab Final:** optional, replaces lowest Lab Grade  f*or calculations, cross off lowest unit and replace with Final Exam Grade (if higher)* | | | | | | **50** |
| **Health Fair**  Report (Worksheet) Presentation (Quiz) | | 1  (2-7) | 100 | **+** | 100 | **=** | 200 |
| **Grade =** | | | | | | | **950** |