

BISC 103 - Inquiry into Life: Human Biology

Lecture and Lab:

BISC 103 is the laboratory class that accompanies BISC 102 Essential Biology with Physiology. Both lecture and lab focus on Human Biology and should be taken during the same semester. If completed successfully, they fulfill one part of the state requirement that all students earning a Bachelor's Degree take at least 8 hours of laboratory science classes.

This biology lab is designed to teach you skills as well as biological information. Some topics will be covered first in lecture and some will be covered first in lab. In some cases, the laboratory work will help you understand lecture material; in other cases, it may be the other way around. The lecture and lab are designed to be complimentary. In general, you can expect to spend 2 hours a week in the lab and some additional time studying, reading and completing writing exercises. Because the labs are smaller than the lectures, we use them as an opportunity to teach writing and speaking skills as well as biological material.

BISC 102 and 103 are classes designed for non-science majors. If you are majoring in one of the sciences (typically, biology, chemistry or pharmacy) you should be in BISC 160 and BISC 161. See your Instructor immediately if you think you are in the wrong class!

Goals and Objectives:

1. Students will have an understanding of the structure and function of organ systems and bodily functions. We want students to have an understanding of human health in the context of biological principles.
2. Students will understand several aspects of scientific methods including hypothesis testing and the use of models. Students will be able to use that understanding in addressing topics of current interest.
3. Students will be able to use library resources effectively and know how to evaluate web sites.
4. Students will be able to write an insightful book review or summary of a current events article and be able to do an effective oral presentation.

Textbook:

1. **Biological Sciences 103. Inquiry into Life Laboratory: Human Biology.**
Hayden-McNeil

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Syllabus:

Each class will be divided into two groups (Red & Blue). Everyone must come to labs that are designated "All." Otherwise, Come to the labs that are designated with your group color (Red or Blue).

LAB #	TEAM	LAB TOPIC	ASSIGNED WORK
LAB 1	All	Introduction Scientific Method	In-class worksheet 1 (10 pts)
LAB 2	Red	Osmosis experiment	In-class worksheet 2 (10 pts) QUIZ 1 (10 pts)
	Blue	Osmosis experiment	
LAB 3	Red	Digestive System	In-class worksheet 3 (10 pts) QUIZ 2 (10 pts)
	Blue	Digestive System	
LAB 4	Red	Chromosomes & Karyotyping Library resources & Plagiarism Current events assignment given	In-class worksheet 4 (10 pts) QUIZ 3 (10 pts) Web Homework (10 pts) Library Homework (10 pts) (
	Blue	Chromosomes & Karyotyping Library resources & Plagiarism Current events assignment given	
LAB 5	All	Human genetics "How many cats" simulation	In-class worksheet 5 (10 pts) QUIZ 4 (10 pts) Plagiarism Homework (10 pts)
LAB 6	Red	Restriction Mapping of DNA Presentations Topics discussed	In-class worksheet 6 (10 pts) Current events due (20 pts) QUIZ 5 (10 pts)
	Blue	Restriction Mapping of DNA Presentations Topics discussed	
LAB 7	Red	STDs and Contraception	In-class worksheet 7 (10 pts) QUIZ 6 (10 pts)
	Blue	STDs and Contraception	
LAB 8	All	Excretion and urinalysis	In-class worksheet 8 (10 pts) QUIZ 7 (10 pts) Presentation Outline due (5 pts)
LAB 9	All	Student Presentations	(50 points) Presentation Bibliography (5 pts)

Grading:

Quizzes (10 points each)	70 points
In-class worksheets (10 points each)	80 points
Current events	20 points
Web Homework	10 points
Library Homework	10 points
Plagiarism Homework	10 points
Presentation Outline	5 points
Presentation	50 points
Presentation Bibliography	5 points
Total	260 points

Grades:

A = 234-260 points
B = 208-233 points
C = 182-207 points
D = 156-181 points
F = < 156 points