

Biology 1040 Organismal Biology Lab

COVID 19 CHANGES: Due to COVID 19 regulations we are altering the way we teach the non-major labs. Only half of the normal number of students can be in the lab at a time. Therefore, each class will be divided into 2 groups (group A and group B). Each group will attend lab alternating weeks. The weeks that you do not have in-person labs you will have online labs to complete. All of the online labs will be through McGraw Hill Connect. You will be told whether you are in Group A or Group B. Each group has a different schedule at the end of the syllabus.

Attendance: Attendance in lab is mandatory. **As per University policy; a student who misses more than 20% of the scheduled classes of a course will be subject to receiving a FAILING grade in the course. There will only be six in-person labs and 7 sets of online labs for you to attend/complete. So, if you miss 3 of them (online or in-person) you automatically fail the course.**

If you are 10 minutes late to lab, you will be turned away from the lab. Lab will begin on time so if you are late

from the class and possibly dropped from the course.

GROUP A Biology 1040 Lab Schedule Fall 2020

Week 1 - Introduction, Syllabus, Safety Guidelines

August 17 - 21

1. Follow directions for downloading Connect Virtual Labs
2. Watch the lecture titled Biol 1040 Introduction, syllabus, and safety guidelines on Connect
3. Complete the following virtual labs listed under "Week 1 Introduction":
 - Virtual Lab Tutorial
 - Lab Safety - Handwashing
 - Lab Safety - Personal Safety

Week 2 & 3 - Biological Macromolecules

August 24 - 28

GROUP B Biology 1040 Lab Schedule Fall 2020

Week 1 - Introduction, Syllabus, Safety Guidelines

August 17 - 21	1. Follow directions for downloading Connect Virtual Labs
	2. Watch the lecture titled Biol 1040 Introduction, syllabus, and safety guidelines on Connect
	3. Complete the following virtual labs listed under "Week 1 Introduction":
	Virtual Lab Tutorial
	Lab Safety - Handwashing
	Lab Safety - Personal Safety

Week 2 & 3 - Biological Macromolecules

August 24 - 28	Complete the following virtual labs listed under "Week 2 & 3 Biological Macromolecules":
	Chemical Composition of Cells - Test for Sugars
	Chemical Composition of Cells - Test for Starch
	Chemical Composition of Cells - Test for Fat
	Chemical Composition of Cells - Test for Proteins
Aug. 31 - Sept 4	IN-PERSON LAB - Biological Macromolecules

NO LABS THE WEEK OF SEPT. 7 - 11 DUE TO LABOR DAY HOLIDAY

Week 4 & 5 - Osmosis

Sept. 14 - 18	Complete the following virtual labs listed under "Week 4 & 5 Osmosis Labs":
	Osmosis - Movement of Water Across a Selectively Permeable Membrane
	Osmosis - Tonicity in Elodea Cells
	Osmosis - Tonicity in Potato Strips
	Osmosis - Tonicity in Red Blood Cells
Sept. 21 - 25	IN-PERSON LAB - Osmosis Lab

Week 6 & 7 - DNA/Genetics

Sept. 28 - Oct. 2	Complete the following virtual labs listed under "Week 6 & 7 Genetics Labs":
	Human Genetics - Genetic Inheritance
	Mendelian Genetics - Monohybrid Fruit Fly Cross
	Mendelian Genetics - Dihybrid Plant Cross
Oct. 5 - 9	IN-PERSON LAB - DNA Isolation and Gel Electrophoresis

Week 8 & 9- Senses lab

Oct. 12 - 16	Complete the following virtual labs listed under "Week 8 & 9 Senses Labs":
	Eye and Vision - Eye Dissection
	Eye and Vision - Visual Acuity Test
	Eye and Vision - Accommodation of the Lens
	Eye and Vision - Color Vision Test
	Eye and Vision - Pupillary Reflex Test
	Eye and Vision - Convergence Reflex Test
Oct. 19 - 23	IN-PERSON LAB - Senses Lab

Week 10 & 11 - Metabolism and Photosynthesis labs

Oct. 26 - 30	Complete the following virtual labs listed under "Week 10 & 11 Photosynthesis Labs":
	Photosynthesis - Carbon Dioxide Uptake
	Photosynthesis - Photosynthetic Pigments
	Photosynthesis - Determining Rate in White Light
	Photosynthesis - Comparing Green and Blue Light
Nov. 2 - 6	IN-PERSON LAB - Metabolism Lab

Week 12 & 13 - Cardiovascular labs

Nov. 9 - 13	Complete the following virtual labs listed under "Week 12 & 13 Cardiovascular Labs":
	Blood - Blood Typing
	Blood - Differential White Blood Cell Count
	Cardiovascular Physiology - Pulse Rate
	Cardiovascular Physiology - Blood Pressure
Nov. 16 - 20	IN-PERSON LAB - Cardiovascular Lab