

Texts/Materials **Textbook:** Plant Biology 2nd Edition by Rost et al. Publisher - Thomson/Brooks/Cole. ISBN 0-534-38061-1
Lab manual: Introductory Plant Biology Laboratory Manual 9th Edition by Stern. Publisher - McGraw-Hill. ISBN 0-07-29-946-3
Bound Laboratory Journal

<i>Course Requirements</i>	1. Exams, Quizzes & Practicals	4 exams @ 100 pts each; Group quizzes 4@ 25pts	700 pts
	2. Scientific writing	4 practicals@50pts each	
	3. Class activities / homework	1 @ 100 pts	100 pts
	4. Laboratory investigation	frequent @ 5-25pts each Experiment & Presentation	100 pts 100 pts
		TOTAL	1000 pts

<i>Grading Scale</i>	1000 - 900 Points	4.0 = A = 90-100% of possible points	Distinguished
	800 - 899 Points	3.0 = B = 80-89%	Above Average
	700 - 799 Points	2.0 = C = 70-79%	Competent
	600 - 699 Points	1.0 = D = 60-69%	Below average
	0 - 599 Points	0.0 = F = less than 60%	Failing

Exams Exams will take place in class, will cover material from class discussions & readings, will include short essays, diagrams, definitions, true & false and other types of questions. Only 1 exam can be made up if missed or failed. The make up exam will be an essay exam and will be completed during the last week of class.

Group Quizzes Group quizzes take place in class the day before an exam. Groups are selected by the instructor. No notes or other resources may be used on the quiz. The group quizzes will provide a method of review for the exam. Missed group quizzes **cannot** be made up.

Lab Practicals Lab practicals are laboratory assessments that take place in lab. An approved laboratory journal that is maintained by the student during labs may be used during the laboratory practicals. Lab practicals **cannot** be made up if missed.

Class activities/homework Many graded activities will take place in class to include students in the learning process. Homework assignments will periodically be assigned with the expectation that they will be completed by the deadline to prepare the student for the classroom activities and discussions. Missed graded classroom activities or uncompleted homework assignments **cannot** be made up.

Scientific Writing Scientific writing involves maintaining a scientific journal and writing a scientific lab report. Instructions for these assignments will be handed out in lab.

Laboratory Investigation Assigned groups will choose, design and carry out a scientific investigation to test a hypothesis. The proposal, conduct of the experiment, and presentation of the results will contribute to the investigation grade. Instructions will be provided in lab.

Extra Credit Periodic extra credit opportunities may infrequently arise in the form of extra credit on exams or opportunity to attend presentations. 10 pts extra credit is also available for a completed lab report rough draft turned in by the designated deadline, and for a brief presentation and typed summary of a current news item related to plant and fungal biology. Presentations must be scheduled with the instructor. Only 2 individuals may present on any given day.

<i>Consideration for Others in the classroom</i>	Please be respectful of the learning environment in this classroom. Noisy distractions such as cell phones, pagers, gossip sessions and sick children diminish your neighbor's ability to learn. Please turn phone and pagers to vibrate. If it is necessary to bring your children to school, please visit with the instructor before bringing children into the classroom. <u>If your cell phone or pager rings during an exam or quiz, you will automatically lose 5 pts for each ring.</u> Cell phones cannot be used as calculators on exams.
<i>Classroom Safety</i>	All students in this course are expected to follow the safety precautions as outlined for the course and each lab session. Students are required to sign a laboratory safety agreement. During lab exercises, use good judgment and, if in doubt, please ask about proper procedures. Open FOOD AND DRINK ARE NEVER ALLOWED IN THE LAB CLASSROOMS. Potentially carcinogenic chemicals and pathogenic bacteria will be used in this classroom. Open containers of food will be contaminated and can spread disease. But, I need an occasional drink of water or sugar boost, too. So, we will take a couple of short breaks during the class. A cart at the entrance to the classroom will also be available to store your food items.
<i>Academic Honesty Statement</i>	You are expected to do your own work throughout this course and demonstrate academic integrity. Cheating of any kind will not be tolerated and will result in zero credit for the assignment or exam. Continued cheating (a second cheating event) will result in an F in the course. "Cheating" includes looking at and/or copying from another's paper during an exam, copying another student's assignments, using notes or a cheat-sheet during an exam or quiz unless given permission to do so, and plagiarism on any written or oral assignments. -Note - Working together and discussing lab exercises or discussion questions is encouraged, but each student must answer questions using their own words, unless given instructions to do otherwise.
<i>Disability Statement</i>	Students with disabilities who believe they may need accommodations in this class are encouraged to contact the ADVISING OFFICE as soon as possible to ensure such accommodations may be implemented.
<i>Withdrawal Policy</i>	If, for whatever reason, you wish to discontinue taking this course, drop it, do not simply walk away from it. Please, complete the proper withdrawal forms at the registrars office. Students who stop attending class and do not properly withdraw from the class will receive an 'F' for the course.
<i>Policy on Incompletes</i>	Incompletes are available to students who have completed 3/4th of the class with a 70% or higher, but find themselves unable to complete the course. Incompletes must be requested prior to submission of final grades to the registrar.

BIOL 2023 - Lecture Schedule - Course Schedule (Subject to revision)

Week	Dates	Topics & Activities	Reading Assignments	Assign, Quizzes & Exams
1	1/20 & 1/22	Introduction to Plant Biology Review of Biological Chemistry	Chapter 1 Chapter 2	
2	1/27 & 1/29	Review of Cell structure & function Organization of the Plant Body	Chapter 3 Chapter 4	Thur - Article Discussion 1 (Anatomy)
3	2/3 & 2/5	Plant Organization and Structures involved in transport and absorption	Chapters 5-7, 11	Thur - Article Discussion 2 (Physiology)
4	2/10 & 2/12	Plant Organization and Structures involved in Metabolism.	Chapters 6, 8 - 10	Thur - Group Quiz 1
5	2/17 & 2/19	EXAM 1 - Tuesday Life Cycles/ Alternation of Generations	Chapters 1 - 11 Chapter 12	Tues - EXAM 1
6	2/24 & 2/26	Reproduction of Flowering Plants	Chapter 13 - 14	Thur - Article Discussion 3 (Reproduction)
7	3/3 & 3/5	Growth & Development Genetics	Chapter 15 - 16	Thur - Art. Disc 4 Genetics
8	3/10 - 3/12	SPRING BREAK - NO CLASSES		
9	3/17 & 3/19	EXAM 2 - Thursday	Chapters 12 - 16	Tues - Group Quiz Thur - EXAM 2
10	3/24 & 3/26	Evolution & Systematics	Chapter 18	Thur - Article Disc. 5 Evolution
11	3/31 & 4/2	Kingdom Fungi Survey of plant & plant-like organisms	Chapter 20 Chapters 21-23	Thur - Article Disc 6 Plant diversity/Taxonomy
12	4/7 & 4/9	Survey continued	Chapters 24 - 25	Thur -Group Quiz 3
13	4/14 & 4/16	EXAM 3 - Tuesday Plant Ecology	Chapters 18 - 25 Chapter 26	Tues - EXAM 3 Thur - Article Discussion 7 - Ecology
14	4/21 & 4/23	Plant Ecology continued Plants & Culture	Chapter 27 TBA	Thur - Art Disc. 8 Culture
15	4/28 & 4/30	Biotechnology	Chapter 17	Thur - Art Disc 9 Biotech
16	5/4 & 5/6	Group Quiz EXAM 4	Chapters 17, 26 - 27, other	Tues - Group quiz 4 Thur - EXAM 4

BIOL 2023 - Lab Schedule - Course Schedule (Subject to revision)

Week	Dates	Topics & Activities	Reading Assignments	Assign, Quizzes & Exams
1	1/20	Using the microscope to identify plant cell types & structures	Lab 1 & 2	
2	1/27	Root, shoot & leaf anatomy	Lab 4, 5, & 6	
3	2/3	Photosynthesis - For Lab Report	Lab 10 &/or Handout	
4	2/10	Water in Plants	Lab 11 & Handout	Lab Report Rough Draft
5	2/17	Lab Practical 1 Anatomy of a Flower/Life Cycles	Lab 12	Lab Practical
6	2/24	Methods of Plant Propagation	Lab 7 & Handout	
7	3/3	Fast Plants & Genetics	Lab 21 & Handout	Lab Report Final Draft
8	3/10	SPRING BREAK - NO CLASSES		
9	3/17	Results & Discussion of week 6 & 7 labs Start Fungi Lab	Handout	
10	3/24	Lab Practical 2 Systematics Lab	Handout	Lab Practical
11	3/31	Group Investigation	Lab 15	Present Proposal for Investigation
12	4/7	Fungi & Plant Survey	Labs 14 - 18	
13	4/14	Lab Practical 3 Using a key and surveying Plant communities	Handout	Lab Practical
14	4/21	Biotechnology	Handout	Update of Investigation Progress
15	4/28	Biotechnology continued	Handout	
16	5/4	Lab Practical 4		Lab Practical Presentations