

General Biology 103: Dynamic Plant
FALL 2021
Tentative Schedule

Wk	Active date	LECTURE TOPICS	Readings - Sterns	Videos	Lab Target	Assessments
1	9/27	Orientation to the Course & Intro to Plant Science	Ch 1 & Sections: 8.6*, 14.1, & 16.1 *for lab Sec 24.2	Discovering Plants (Academic Videos) - <i>rec</i> Botany of Desire – Apples episode only (Academic Videos) - Required	1. Anatomy of a seed 2. Set up germination studies	Moodle quiz (MQ): due Sat 11:55 pm.
2	10/4	Plant Cells, microscopes & mitosis	Ch 3	FOD: Plant Biology: Core Concepts: Plant Cells- <i>rec</i> Bozeman: Phases of Mitosis - <i>rec</i>	1. Germination studies results. 2. Plant Cells 3. Plant Family survey	MQ: due Sat 11:55 pm.
3	10/11	Plant tissues & Meristems	Ch 4	FOD: Plant Biology: Core Concepts: Plant Tissues Bozeman: Plants & Plant Structure - <i>rec</i>	1. Plant tissues 2. Set up tropism lab.	MQ: due Sat 11:55 pm.
4	10/18	Plant Responses Tropisms, Phytochromes Plant hormones & Plant defenses	Ch 11 Ch 14 *Sec 14.3 for lab	Film: What plants talk to each other (Academic Videos) - Required FOD: Plant Biology: Core Concepts: Plant defenses - <i>rec</i>	1. Plant nutrients lab set up. 2. Plant propagation lab. 3. Results of tropisms	MQ: due Sat 11:55 pm.
5	10/25 Exam Lab Quiz	<u>Unit 2: A&P</u> Roots Anatomy Soils & Plant nutrients	Ch 5 Ch 9 *Sec 9.6	FOD: Plant Biology: Core Concepts: Plant roots & the rhizosphere - <i>rec</i> Bozeman: Plant nutrition & transport - <i>rec</i>	1. Root lab 2. Results of tropisms expt with corn. 3. Plant fam quiz 1	MQ: due Sat 11:55 pm. Exam on Monday 10/26 – covers first 4 weeks.
6	11/1	Stems Anatomy & Fcn Stem specialization	Ch 6 & Ch 9	FOD: Plant Biology: Core Concepts: Transport of Water -- <i>rec</i>	1. Stems Lab 2. Transpiration – in groups.	MQ: due Sat 11:55 pm. Sign up for topic.

7	11/8	Leaf A&P Special leaf adaptations	Ch 7 & Ch 10 only sec 3.	Bozeman: Finding Stomata & Photosynthesis (in unit 7) -- <i>rec</i>	1. Leaf Lab 2. Photosynthesis (new)	MQ: due Sat 11:55 pm.
8	11/15	<u>Unit 3: Plant Repro</u> Parts of a flower	Ch 8 Section 8.1-8.3 Ch 23 Sec 23.2*& 23.3* Flowering plants Ch 24.3	Plants Behaving Badly: Sex and Lies (Academic Videos) - Required	1. Flower lab 2. Results of plant nutrients lab (if plants are ready), otherwise in week 9.	MQ: due Sat 11:55 pm.
9	11/22 Lab Quiz	Fruit Anatomy	Ch 8 Section 8.4* & 8.5*	Exploring plant reproduction (Academic Videos) -- <i>rec</i>	1. Fruit lab. 2. Plant fam quiz 2	MQ: due Sat 11:55 pm. Fact sheet on food plant due 11/22 M
10	11/29 Lab test	Succession & Plant Response at the Ecosystem level	Ch 25 Sec 25.2-25.5	No films this week. Prepare your presentation.	Online Zoom Session 1. Lab practicum 2. Project presentations	MQ: due Sat 11:55 pm. Lab practicum

Library Film Resources: go to linnbenton homepage, scroll down, choose **library**, scroll down to Research tools. This is where you will find the Academic Videos. You will need to enter your X number and birth year to access from home. Films on Demand are found under “All Databases” choose F and find Films on Demand.

- FOD – Films on Demand (available through LBCC Library website).....Type in Plant Core Concepts and Topic
- (Academic Videos) – Type in the name of the film as seen on the Schedule above. Find video guides in Moodle to fill out and return with lab report.
- *Bozeman Science Videos: <http://www.bozemanscience.com/biology-main-page>
Scroll down, **Unit 3 Cells** and **Unit 7 Plants** will be used in this 103 course (you are welcome to use other links as well from this resource – considered the best available tutorials in biology education for higher ed.

Final Exam: Wednesday – December 8 – most likely noon-11:55 pm. (12 hr window)