

General Biology 103: Dynamic Plant  
FALL 2020  
***Tentative*** Schedule

Wk	Active date	LECTURE TOPICS	Readings - Sterns	Videos	Lab Target	Assessments
1	9/28	Orientation to the Course & Intro to Plant Science	<b>Ch 1 and</b> pg 250-252 pg 283-285 pg 150-152	Discovering Plants (Academic Videos) - <i>rec</i> Botany of Desire – Apples episode only (Academic Videos) - <b>Required</b>	1. Anatomy of a seed 2. Germination studies 3. Explain Group project	Moodle quiz (MQ): due Sat 11:55 pm.
2	10/5	Plant Cells, microscopes & mitosis	<b>Ch 3</b>	FOD: Plant Biology: Core Concepts: Plant Cells- <i>rec</i> Bozeman: Phases of Mitosis - <i>rec</i>	1. Plant Cells 2. Group projects – set up.	MQ: due Sat 11:55 pm.
3	10/12	Plant tissues & Meristems	<b>Ch 4</b>	FOD: Plant Biology: Core Concepts: Plant Tissues Bozeman: Plants & Plant Structure - <i>rec</i>	1. Plant tissues 2. Set up tropism lab. 3. Sign up for vegetable fact sheet topic.	MQ: due Sat 11:55 pm.
4	10/19	Plant Responses Tropisms, Phytochromes Plant hormones & Plant defenses	<b>Ch 11</b> <b>Ch 14</b> Pg 260-266	Film: What plants talk to each other (Academic Videos) - <b>Required</b> FOD: Plant Biology: Core Concepts: Plant defenses - <i>rec</i>	1. Plant propagation lab. 2. Observe tropisms expt.	MQ: due Sat 11:55 pm.
5	10/26	<u>Unit 2: A&amp;P</u> Roots Anatomy Soils & Plant nutrients	<b>Ch 5</b> <b>Ch 9</b> pg 159-162 Ch 25	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. Nutrient lab set up. See a sample: will be set up by lab prep staff.	MQ: due Sat 11:55 pm. <b>Exam on Monday 10/26 – covers first 4 weeks.</b>

6	11/2	Stems Anatomy & Fcn Stem specialization	<b>Ch 6 &amp; Ch 9</b> pg 153-159	FOD: Plant Biology: Core Concepts: Transport of Water -- <i>rec</i>	1.Stems & Transpiration 2.Leaf lab (portion of with stomata)	MQ: due Sat 11:55 pm.
7	11/9	Leaf A&P Special leaf adaptations	<b>Ch 7 &amp; 10 (sec 1 &amp;2)</b>	Bozeman: Finding Stomata & Photosynthesis (in unit 7) -- <i>rec</i>	<b>No labs on Campus</b> Veteran's day Holiday	MQ: due Sat 11:55 pm.
8	11/16	<u>Unit 3: Plant Repro</u> Parts of a flower	<b>Ch 8</b> Pg 125-129 <b>Ch 23</b> Flowering plants Exclude pg 452-455	Plants Behaving Badly: Sex and Lies (Academic Videos) - <b>Required</b>	Flower labeling activity & plant family survey.	MQ: due Sat 11:55 pm. <b>Vegetable fact sheet due 11/20 at 5 pm.</b>
9	11/23	Fruit Anatomy	<b>Ch 8 cont Ch 24</b> pg 159-162	Exploring plant reproduction (Academic Videos) -- <i>rec</i>	1.Fruit lab. 2.Results of nutrient deficiency study on tomatoes.	MQ: due Sat 11:55 pm.
10	11/30	Succession & Plant Response at the Ecosystem level	Ch 25 Pg 490-503 only	No films this week. Use this time to prepare your group presentation.	Online 1. Lab practicum 2. Group presentations	MQ: due Sat 11:55 pm. <b>Lab practicum</b>

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 in biology education for higher ed.

**Final Exam: Friday – December 9, Time TBD – *most likely noon-11:55 pm. (12 hr window)***