

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><br>pg 250-252<br>pg 283-285<br>pg 150-152 | Discovering Plants (Academic Videos) - <b>rec</b><br>Botany of Desire – Apples episode only (Academic Videos) - <b>Required</b>            | 1. Anatomy of a seed<br>2. Germination studies<br>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- <b>rec</b><br>Bozeman: Phases of Mitosis - <b>rec</b>                                      | 1. Plant Cells<br>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<br>Bozeman: Plants & Plant Structure - <b>rec</b>   | 1. Plant tissues<br>2. Set up tropism lab.<br>3. Sign up for vegetable fact sheet topic.  | MQ: due Sat 11:55 pm.  |
| 4  | 10/19       | Plant Responses<br>Tropisms, Phytochromes<br>Plant hormones & Plant defenses | <b>Ch 11</b><br><b>Ch 14</b><br>Pg 260-266                | Film: What plants talk to each other (Academic Videos) - <b>Required</b><br>FOD: Plant Biology: Core Concepts: Plant defenses - <b>rec</b> | 1. Plant propagation lab.<br>2. Observe tropisms expt.  | MQ: due Sat 11:55 pm.  |
| 5  | 10/26       | <u>Unit 2: A&amp;P</u><br>Roots Anatomy<br>Soils & Plant nutrients           | <b>Ch 5</b><br><b>Ch 9</b><br>pg 159-162<br>Ch 25         | FOD: Plant Biology: Core Concepts: Plant roots & the rhizosphere - <b>rec</b><br>Bozeman: Plant nutrition & transport - <b>rec</b>         | 1. Root lab<br>2. Results of tropisms expt with corn.<br>3. Nutrient lab set up.<br>See a sample: will be set up by lab prep staff. | MQ: due Sat 11:55 pm.<br><b>Exam on Monday 10/26 – covers first 4 weeks.</b> |

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