

Course Syllabus

[Jump to Today](#)

Pre-requisites: BIOLOGY 106, BIOLOGY 107, BIOLOGY 120, or HORT 202; junior standing.
Recommended preparation: BIOLOGY 420.

Schedule – Lecture: Vogel 31 - Tuesday and Thursday 1:30 to 2:45 pm

Lab: Vogel 39 & Clark 272 - Thursday 2:55-5:45 pm

Instructor: Richard M. Sharpe, Ph.D. Teaching Assistant Professor

Office: Clark 239

Office hours: by appointment, send me an email or see me in class to set up

Contact information: Richard M. Sharpe: rsharp@wsu.edu (<mailto:rsharp@wsu.edu>);
509-335-3603

Overview

This goal of **Hort 430 : Plant Molecular and Cell Biology** is to enable students to: integrate plant cell mechanics, development, and response to stimuli and how concepts learned in previous classes integrate with advanced and applied concepts of the biochemical and molecular processes of agricultural and horticultural crops. The class content has been designed to address current issues in applied horticulture. The course will be comprised of class lectures, invited presentations, reading materials and assignments and class presentations and group discussions.

How to access lecture video recordings?

Video recordings will be available via Canvas through Zoom. The videos will be available under the 'Zoom' link on the Plant Molecular and Cell Biology course side bar menu. You can access the course by logging into Canvas and then finding your course ID in the list in the My Courses module. In addition, within your course space there will be a place for students to report technical problems.

Student Learning Objectives/Goals

All SLOs to be assessed through exams and assignments

Objective 1: Describe what constitutes a plants cell structure.

Objective 2: Describe how cell structures relate to their function.

Objective 3: Explain the underlying chemistry of plant centric biological functions.

Objective 4: Illustrate the concepts of biochemical homeostasis and regulation towards optimal

growth and development.

Objective 5: Describe how plants detect and respond to stress and adapt to changes in the environment towards optimal growth.

Laboratory Objectives

1. Standard Operating Procedures of a Laboratory – assessed through practices and assignments
2. Solution and dilution theory and practicum - assessed through practices and assignments
3. Plant membrane dynamics - assessed through practices and assignments
4. Gel electrophoresis - assessed through practices and assignments
5. DNA, RNA and protein extraction - assessed through practices and assignments
6. Organelle isolation - assessed through practices and assignments
7. Cell wall dynamics - assessed through practices and assignments

Textbook and Course Materials

Buchanan, B. B., Gruissem, W., and Jones, R. L. eds. (2015). *Biochemistry & Molecular Biology of Plants*. 2nd ed. Chichester, UK: John Wiley & Sons, Ltd. ISBN: 978-0-470-71421-8 (available in the WSU library system). Selected peer reviewed review articles.

Lab fee - TBD

Plan of study:

1. A typical class will consist of a lecture, laboratory exercise, or group discussion addressing topical concepts.
2. For each topic, an informative slide show and relevant reading material will be made available to the class.
3. Students are encouraged to review all study material prior to the class, formulate questions and prepare answers for discussion questions.
4. Groups will be expected to present answers to the assigned questions to the rest of the class. These answers will be collected and made available on Canvas.

*The exams will be primarily based on the discussion questions.

The goal of this course is to provide students with the tools necessary to research, write about, and discuss advanced concepts in plant cell biology at the molecular level.

Grading Policy:

Final grade will be a cumulative grade of attendance (10%), three review exams (65%), and student group discussion and assignments (25%).

Category	Percent
Attendance	10%
1 st Review Exam	20%
2 nd Review Exam	20%
3 rd Comprehensive Review Exam	25%
Student Group Discussion & Assignments	25%
Total	100%
Extra credit – interviews	5%
Extra credit – paper review (off campus) or attending Academic Showcase (Pullman)	5%

Attendance policy: Classroom attendance is expected. All students are expected to attend and participate in all meetings of the courses in which they are enrolled; any absence is incurred at the student's own risk and will impact your grade. A total of **5 absences are excused** after which each absence will result in 2% grade loss of your attendance grade. This is meant to apply to unforeseen illness, traveling for academic meetings, collegiate sports, and general malaise, Mondays, etc. Please plan accordingly and do not expect special treatment except perhaps for the most unusual of circumstances. Students should expect to spend 2 to 3 hours of work outside of class for every hour of class lecture. Extremely unusual examples include and are probably limited to: extended alien abduction (with video proof) and the Monday following the Super Bowl*. Refer to Academic Regulation section 71-73 for additional information.

**only applicable if the Seahawks play and are victorious. (pun intended)*

Examinations

Each review exam will be worth 100 points and the final comprehensive review exam will be 150 points. 1st and 2nd review exam will cover the topics that have been covered prior to the test. The 3rd comprehensive review exam will cover the entire content of the class including all invited presentations. It will also include take home essay questions to be provided one week prior to the exam and are due by the beginning of the final exam. Before each review exam, a set of sample/

example/practice questions will be provided to the students, representing the format and level of expected knowledge for the exam. After each review exam, correct answers will be discussed in the class prior to final grading.

Extra Credit

There will be an opportunity to earn 10% extra credit towards your final grade. Two 5% instances for a total of 10%: 1) 5% for an interview of a plant physiology Scientist and how they use plant cell biology in their work whether it is in research or in an industry setting. 2) 5% for attending and writing a synopsis on 5 poster presentations from the Academic Showcase on the Pullman campus or a paper review from a recent, within past 2 years, article pertinent to plant cell biology (article must be approved by one of the instructors).

Group Discussions

Each concept in the course will conclude with a set of group discussion questions. These will be distributed throughout the semester and are known only to the course instructors. The goal of these questions is to promote group problem solving and enhancing communications skills as practiced in the real world. Inter-group collaboration is encouraged. If interpersonal and/or communication problems arise, the instructors reserve the right to “realign the group dynamic” at their discretion.

Late work and makeup Exam Policy

Any late assignment or lab report will be assessed a 5% per day late penalty unless otherwise cleared with instructor for due date deadline extension. Makeup exams will be cleared and scheduled prior to said exam with the instructor.

A final letter grade will be assigned based on the following grading scheme where the numbers represent total percentage of marks scored. In the case of border line scores, a tenth of number rounding scheme will be implemented. Example: less than 93.5 will round down to 93, greater than or equal to 93.5 will round up to 94.

A 94-100	B+ 87-89	C+ 77-79	D+ 67-69	F < 60
A- 90-93	B 84-86	C 74-76	D 60-66	
B- 80-83	C- 70-73			

Students with Disabilities: Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center. For more information contact a Disability Specialist on your home campus:

Pullman or WSU Online: 509-335-3417 <http://accesscenter.wsu.edu>  (<http://accesscenter.wsu.edu/>), Access.Center@wsu.edu (<mailto:Access.Center@wsu.edu>)

WSU Academic Integrity: Academic integrity is the cornerstone of the university. You assume full responsibility for the content and integrity of the academic work you submit. You may collaborate with classmates on assignments, with the instructor's permission. However the guiding principle of academic integrity shall be that your submitted work, examinations, reports, and projects must be your own work. Any student who violates the University's standard of conduct relating to academic integrity will be referred to the Office of Student Conduct and may fail the assignment or the course. You can learn more about Academic Integrity on your campus using the URL listed in the Academic Regulations section or at <http://conduct.wsu.edu/academic-integrity-policies-and-resources>  (<http://conduct.wsu.edu/academic-integrity-policies-and-resources/>). Please use these resources to ensure that you don't inadvertently violate WSU's standard of conduct.

Use of AI tools and programs. Course policy on AI use can be found [here "Use of AI"](https://wsu.instructure.com/courses/1775422/files/128756589?wrap=1) (<https://wsu.instructure.com/courses/1775422/files/128756589?wrap=1>)  (https://wsu.instructure.com/courses/1775422/files/128756589/download?download_frd=1) (https://wsu.instructure.com/courses/1493468/files/128755879/download?download_frd=1) (https://wsu.instructure.com/courses/1493468/files/128755879/download?download_frd=1)

WSU Safety: Pullman: “Washington State University is committed to enhancing the safety of the students, faculty, staff, and visitors. It is highly recommended that you review the Campus Safety Plan (<https://safetyplan.wsu.edu/>  (<https://safetyplan.wsu.edu/>)) and visit the Office of Emergency Management web site (<https://oem.wsu.edu/>  (<https://oem.wsu.edu/>)) for a comprehensive listing of university policies, procedures, statistics, and information related to campus safety, emergency management, and the health and welfare of the campus community.”

WSU Religious Accommodation Statement: “Washington State University reasonably accommodates absences allowing for students to take holidays for reasons of faith or conscience or organized activities conducted under the auspices of a religious denomination, church, or religious organization. Reasonable accommodation requires the student to coordinate with the instructor on scheduling examinations or other activities necessary for course completion. Students requesting accommodation must provide written notification within the first two weeks of the beginning of the course and include specific dates for absences. Approved accommodations for absences will not adversely impact student grades. Absence from classes or examinations for religious reasons does not relieve students from responsibility for any part of the course work required during the period of absence. Students who feel they have been treated unfairly in terms of this accommodation may refer to Academic Regulation 104 – Academic Complaint Procedures. See also Academic Regulation 82, available at <https://registrar.wsu.edu/academic-regulations/>  (<https://registrar.wsu.edu/academic-regulations/>).

University Syllabus - [available here](https://wsu.instructure.com/courses/1775422/external_tools/172124) (https://wsu.instructure.com/courses/1775422/external_tools/172124)

Course Summary:

Date	Details	Due
Tue Jan 7, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075786&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Jan 9, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075787&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Jan 14, 2025	 PreSemester Evaluation Quiz (https://wsu.instructure.com/courses/1775422/assignments/9838352)	due by 11am
Tue Jan 14, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075788&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Jan 16, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075789&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Jan 21, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075790&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Jan 23, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075791&include_contexts=course_1775422)	1:30pm to 2:50pm

Date	Details	Due
Tue Jan 28, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075792&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Jan 30, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075793&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Feb 4, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075794&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Feb 6, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075795&include_contexts=course_1775422)	1:30pm to 2:50pm
	 Assignment 1 - Dilution Solution Problems (https://wsu.instructure.com/courses/1775422/assignments/10067855)	due by 3pm
	 Hort 430 Exam 1 (https://wsu.instructure.com/courses/1775422/assignments/9838346)	due by 1:25pm
Tue Feb 11, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075796&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Feb 13, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075797&include_contexts=course_1775422)	1:30pm to 2:50pm

Date	Details	Due
	event_id=4075797&include_contexts=course_1775422)	
Fri Feb 14, 2025	 Exam 1 resubmission Portal https://wsu.instructure.com/courses/1775422/assignments/9838343)	due by 3pm
Tue Feb 18, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075798&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Feb 20, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075799&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Feb 25, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075800&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Feb 27, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075801&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Mar 4, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075802&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Mar 6, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075803&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Mar 11, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant	1:30pm to 2:50pm

Date	Details	Due
	Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075804&include_contexts=course_1775422)	
Thu Mar 13, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075805&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Mar 18, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075806&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Mar 20, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075807&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Mar 25, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075808&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Mar 27, 2025	 Hort 430 Exam 2 (https://wsu.instructure.com/courses/1775422/assignments/9838347)	due by 1:30pm
Thu Mar 27, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075809&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Mar 27, 2025	 Exam 2 resubmission Portal (https://wsu.instructure.com/courses/1775422/assignments/9838344)	due by 1:30pm

Date	Details	Due
Tue Apr 1, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075810&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Apr 3, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075811&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Apr 8, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075812&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Apr 10, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075813&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Apr 15, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075814&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Apr 17, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075815&include_contexts=course_1775422)	1:30pm to 2:50pm
Tue Apr 22, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075816&include_contexts=course_1775422)	1:30pm to 2:50pm
Thu Apr 24, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075817&include_contexts=course_1775422)	1:30pm to 2:50pm

Date	Details	Due
	wsu.instructure.com/calendar? event_id=4075817&include_contexts=course_1775422)	
Tue Apr 29, 2025	 2025-Spr-HORT-430-PULLM-1-01-04473-Plant Molecular & Cellular Bio (https://wsu.instructure.com/calendar?event_id=4075818&include_contexts=course_1775422)	1:30pm to 2:50pm
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025136&include_contexts=course_1775422)	
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025143&include_contexts=course_1775422)	
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025146&include_contexts=course_1775422)	
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025187&include_contexts=course_1775422)	
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025197&include_contexts=course_1775422)	
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025198&include_contexts=course_1775422)	
	 2022-Hort416-516 Office Hours (https://wsu.instructure.com/calendar?event_id=4025199&include_contexts=course_1775422)	

Date

Details

Due



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025200&include_contexts=course_1775422)

[event_id=4025200&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025200&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025201&include_contexts=course_1775422)

[event_id=4025201&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025201&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025206&include_contexts=course_1775422)

[event_id=4025206&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025206&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025217&include_contexts=course_1775422)

[event_id=4025217&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025217&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025218&include_contexts=course_1775422)

[event_id=4025218&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025218&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025219&include_contexts=course_1775422)

[event_id=4025219&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025219&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025220&include_contexts=course_1775422)

[event_id=4025220&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025220&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025221&include_contexts=course_1775422)

[event_id=4025221&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025221&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025222&include_contexts=course_1775422)

[event_id=4025222&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025222&include_contexts=course_1775422)

Date

Details

Due



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025227&include_contexts=course_1775422)

[event_id=4025227&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025227&include_contexts=course_1775422)



2022-Hort416-516 Office

Hours ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025228&include_contexts=course_1775422)

[event_id=4025228&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025228&include_contexts=course_1775422)



2023-Spr-HORT-430-
PULLM-1-01-17417-Plant

Molecular & Cellular Bio ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025259&include_contexts=course_1775422)

[event_id=4025259&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025259&include_contexts=course_1775422)



2023-Spr-HORT-430-
PULLM-1-01-17417-Plant

Molecular & Cellular Bio ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025260&include_contexts=course_1775422)

[event_id=4025260&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025260&include_contexts=course_1775422)



2023-Spr-HORT-430-
PULLM-1-01-17417-Plant

Molecular & Cellular Bio ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025261&include_contexts=course_1775422)

[event_id=4025261&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025261&include_contexts=course_1775422)



2023-Spr-HORT-430-
PULLM-1-01-17417-Plant

Molecular & Cellular Bio ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025262&include_contexts=course_1775422)

[event_id=4025262&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025262&include_contexts=course_1775422)



2023-Spr-HORT-430-
PULLM-1-01-17417-Plant

Molecular & Cellular Bio ([https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?event_id=4025263&include_contexts=course_1775422)

[event_id=4025263&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025263&include_contexts=course_1775422)

Date

Details

Due

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025264&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025264&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025265&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025265&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025266&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025266&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025267&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025267&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025268&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025268&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025269&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025269&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025270&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025270&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025271&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025271&include_contexts=course_1775422)

Date

Details

Due

[wsu.instructure.com/calendar?
event_id=4025271&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025271&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025272&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025272&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025273&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025273&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025274&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025274&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025275&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025275&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025276&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025276&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025277&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025277&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025278&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025278&include_contexts=course_1775422)

Date

Details

Due

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025279&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025279&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025280&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025280&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025281&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025281&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025282&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025282&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025283&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025283&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025284&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025284&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025285&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025285&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025286&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025286&include_contexts=course_1775422)

Date

Details

Due

[wsu.instructure.com/calendar?
event_id=4025286&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025286&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025287&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025287&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025288&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025288&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025289&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025289&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025290&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025290&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025291&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025291&include_contexts=course_1775422)

 [2023-Spr-HORT-430-
PULLM-1-01-17417-Plant
Molecular & Cellular Bio \(https://
wsu.instructure.com/calendar?
event_id=4025292&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025292&include_contexts=course_1775422)

 [Assignment #1 - Light \(https://
wsu.instructure.com/
courses/1775422/
assignments/9838338\)](https://wsu.instructure.com/courses/1775422/assignments/9838338)

Date

Details

Due

 [Assignment #2 - Light \(photonic\)](https://wsu.instructure.com/courses/1775422/assignments/9838339) (<https://wsu.instructure.com/courses/1775422/assignments/9838339>)

 [Assignment #3 - Photosynthesis](https://wsu.instructure.com/courses/1775422/assignments/9838340) (<https://wsu.instructure.com/courses/1775422/assignments/9838340>)

 [Assignment #4 - Hormones & ROS](https://wsu.instructure.com/courses/1775422/assignments/9838341) (<https://wsu.instructure.com/courses/1775422/assignments/9838341>)

 [Assignment #5 - Carbohydrate Dissemination](https://wsu.instructure.com/courses/1775422/assignments/9838342) (<https://wsu.instructure.com/courses/1775422/assignments/9838342>)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio](https://wsu.instructure.com/calendar?event_id=4025131&include_contexts=course_1775422) (https://wsu.instructure.com/calendar?event_id=4025131&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio](https://wsu.instructure.com/calendar?event_id=4025132&include_contexts=course_1775422) (https://wsu.instructure.com/calendar?event_id=4025132&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio](https://wsu.instructure.com/calendar?event_id=4025133&include_contexts=course_1775422) (https://wsu.instructure.com/calendar?event_id=4025133&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio](https://wsu.instructure.com/calendar?) (<https://wsu.instructure.com/calendar?>)

Date

Details

Due

[event_id=4025134&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025135&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025138&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025139&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025140&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025141&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025142&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025144&include_contexts=course_1775422\)](#)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025145&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025145&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025147&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025147&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025148&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025148&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025164&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025164&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025166&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025166&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025167&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025167&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025168&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025168&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://](https://wsu.instructure.com/calendar?event_id=4025168&include_contexts=course_1775422)

Date

Details

Due

[wsu.instructure.com/calendar?
event_id=4025169&include_contexts=course_1775422](https://wsu.instructure.com/calendar?event_id=4025169&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025170&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025170&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025171&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025171&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025172&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025172&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025174&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025174&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025175&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025175&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025176&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025176&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025177&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025177&include_contexts=course_1775422)

Date

Details

Due

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025178&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025178&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025188&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025188&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025189&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025189&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025190&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025190&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025191&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025191&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025192&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025192&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025193&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025193&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-PULLM-1-01-04700-Adv Horticultural Crop Physio \(https://wsu.instructure.com/calendar?event_id=4025194&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025194&include_contexts=course_1775422)

Date

Details

Due

[wsu.instructure.com/calendar?
event_id=4025194&include_contexts=course_1775422](https://wsu.instructure.com/calendar?event_id=4025194&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025195&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025195&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025196&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025196&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025202&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025202&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025203&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025203&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025204&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025204&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025205&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025205&include_contexts=course_1775422)

 [**AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio** \(https://
wsu.instructure.com/calendar?
event_id=4025213&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025213&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025214&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025214&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025215&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025215&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025216&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025216&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025223&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025223&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025224&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025224&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025225&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025225&include_contexts=course_1775422)

 [AVC- 2022-Spr-HORT-416-
PULLM-1-01-04700-Adv
Horticultural Crop Physio \(https://
wsu.instructure.com/calendar?
event_id=4025226&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025226&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-
PULLM-1-01-07152 \(https://
wsu.instructure.com/calendar?
event_id=4025227&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025227&include_contexts=course_1775422)

Date

Details

Due

[event_id=4025149&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025150&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025151&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025152&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025179&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025180&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025181&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025182&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025183&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?](#)

Date

Details

Due

[event_id=4025184&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025185&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025186&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025207&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025208&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025209&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025210&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025211&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025212&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?\)](#)

Date

Details

Due

[event_id=4025229&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025230&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025231&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025232&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025233&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025234&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025235&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025236&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025237&include_contexts=course_1775422\)](#)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?\)](#)

Date

Details

Due

[event_id=4025238&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025238&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025239&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025239&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025240&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025240&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025241&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025241&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025242&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025242&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025243&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025243&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025244&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025244&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025245&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025245&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025246&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025246&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?\)](https://wsu.instructure.com/calendar?)

Date

Details

Due

[event_id=4025247&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025247&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025248&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025248&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025249&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025249&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025250&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025250&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025251&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025251&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025252&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025252&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025253&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025253&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025254&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025254&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025255&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025255&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?](https://wsu.instructure.com/calendar?)

Date

Details

Due

[event_id=4025256&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025256&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025257&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025257&include_contexts=course_1775422)

 [AVC- 2023-Spr-HORT-416-PULLM-1-01-07152 \(https://wsu.instructure.com/calendar?event_id=4025258&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025258&include_contexts=course_1775422)

 [Final Lab Notebook submission portal \(https://wsu.instructure.com/courses/1775422/assignments/9838345\)](https://wsu.instructure.com/courses/1775422/assignments/9838345)

 [Hort 430 Final Exam \(https://wsu.instructure.com/courses/1775422/assignments/9838348\)](https://wsu.instructure.com/courses/1775422/assignments/9838348)

 [Lab after Exam Lecture \(https://wsu.instructure.com/courses/1775422/assignments/9838350\)](https://wsu.instructure.com/courses/1775422/assignments/9838350)

 [Lab Notebook submission portal \(https://wsu.instructure.com/courses/1775422/assignments/9838349\)](https://wsu.instructure.com/courses/1775422/assignments/9838349)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025128&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025128&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025129&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025129&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025130&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025130&include_contexts=course_1775422)

Date

Details

Due

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025137&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025137&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025153&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025153&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025154&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025154&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025155&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025155&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025156&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025156&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025157&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025157&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025158&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025158&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025159&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025159&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025160&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025160&include_contexts=course_1775422)

 [Office Hours \(https://wsu.instructure.com/calendar?event_id=4025161&include_contexts=course_1775422\)](https://wsu.instructure.com/calendar?event_id=4025161&include_contexts=course_1775422)

Date	Details	Due
	 Office Hours (https://wsu.instructure.com/calendar?event_id=4025162&include_contexts=course_1775422)	
	 Office Hours (https://wsu.instructure.com/calendar?event_id=4025163&include_contexts=course_1775422)	
	 Office Hours (https://wsu.instructure.com/calendar?event_id=4025165&include_contexts=course_1775422)	
	 Office Hours (https://wsu.instructure.com/calendar?event_id=4025173&include_contexts=course_1775422)	
	 Pre-Semester Evaluation (https://wsu.instructure.com/courses/1775422/assignments/9838351)	

University Syllabus

Students are responsible for reading and understanding all university-wide policies and resources pertaining to all courses (for instance: accommodations, crisis resources, policies on discrimination or harassment), which can be found in the university syllabus:

<https://syllabus.wsu.edu/university-syllabus>  [_ \(https://syllabus.wsu.edu/university-syllabus\)](https://syllabus.wsu.edu/university-syllabus)