

GREENHOUSE MANAGEMENT AND CROP PRODUCTION - LAB HORT 358 (1-CREDIT)

INSTRUCTOR

Jamie Holden

Ensminger Pavilion

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Office hours: available to meet with students any day by appointment

LAB: Friday 1:10 to 3 PM
Greenhouses by Ferdinand's

PREREQUISITES: Hort 202 recommended. Should be taken same semester as Hort 357

RECOMMENDED TEXT BOOKS

Ball RedBook 19th Edition. Ball Publishing, West Chicago, IL.

Volume 1: Greenhouses and Equipment

Volume 2: Crop Production

COURSE OBJECTIVES

- 1) To be able to identify selected greenhouse crops,
- 2) To experience production practices for spring greenhouse crops,
- 3) To understand the environmental factors involved in manipulating growth and development of greenhouse crops,
- 4) To apply the knowledge learned in the lecture to decision-making practices in the greenhouse

Student Learning Outcomes

1) Students can describe cultural details required to produce the following crops in a greenhouse environment:

- Begonias in hanging baskets
- Fuchsias in hanging baskets
- Large pulp hanging baskets
- Deck planters
- Zonal geraniums in 5 and ½ pots
- Bedding plants
- Vegetables

2) Students have expertise to determine crop scheduling for plant sales at future dates. Students can select seeds for germination, transplanting, and growing on for sale.

3) Students can grow plants listed in 1 and 2, in a production greenhouse setting.

4) Students will evaluate crop growth using personal observations made week by week during the production cycle of spring crops.

5) Students will grow quality crops. This determination will be made by the public purchasing crops grown by students in Hort 358.

6) Students will observe and evaluate greenhouse management practices used in production of crops for Spring Family Weekend.

STUDENT EVALUATION

Grades will be based on total accumulated points throughout the semester from:

- 1) Quizzes, class attendance, and participation - 75%
- 2) Each lab is worth 10 points
- 3) Final exam – 25%,
- 4) **A review sheet will be provided prior to the final which will be given on Friday, April 26, 2024 during lab.**

GRADING SCALE

100 - 93%	A	77 - 79%	C+
90 - 92%	A-	73 - 76%	C
87 - 89%	B+	70 - 72%	C-
83 - 86%	B	66 - 69%	D+
80 - 82%	B-	60 - 65%	D
		≤59	F

Quizzes and labs cannot be made up if missed unless a legitimate excuse is presented to the instructor.

GENERAL LAB TOPICS TO BE COVERED IN HORT 358

WEEK	LAB ACTIVITY
1	Greenhouse structures, heating and cooling systems
2	Media, fertilizer (fertigation systems) and water quality
3	Scheduling crops
4	Germination and seedling development Sexual propagation (production requirements)
5	Bedding plants
6	Vegetable transplants
7	Seed geraniums
8	Plant identification
9	Pest management Asexual propagation (production requirements)
10	Transplanting into 1204 containers
11	Begonias
12	Retail marketing (preparation of plants for the Mom's Day Plant Sale)
13	Fuchsias
14	Vegetatively propagated annuals
15	Lab final exam

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

Provision of an academic integrity statement complies with WAC 504-26-010(3) and WAC 504-26-404. Course-specific sanctions for violating WSU's Academic Integrity Policy must be included in the ***bolded italicized*** portion of the statement below. Include the following statement in your syllabus:

"You are responsible for reading WSU's [Academic Integrity Policy](#), which is based on [Washington State law](#). If you cheat in your work in this class you will:

- *Fail the assignment, quiz, or exam.*
- Be reported to the [Center for Community Standards](#).
- Have the right to appeal my decision.
- Not be able to drop the course or withdraw from the course until the **appeals** process is finished.

If you have any questions about what you can and cannot do in this course, ask me.

If you want to ask for a change in my decision about academic integrity, use [the form](#) at the [Center for Community Standards](#) website. You must submit this request within 21 calendar days of the decision.