

NOTE to prospective students: This syllabus is intended to provide students who are considering taking this course an idea of what they will be learning. A more detailed syllabus will be available on the course site for enrolled students and may be more current than this sample syllabus.

BOT 331: Plant Physiology

4 credits

Instructor: Dr. Marc Curtis

email: curtism@science.oregonstate.edu

office: 541-737-5287, Cordley Hall 4108

Prerequisites: BI 213 or BI 213H and CH 123 or CH 223.

Course Description:

Survey of physiological processes in plants, including photosynthesis and plant metabolism, mineral nutrition and ion uptake processes, plant cell/water relations and transpiration, and regulation of plant growth and development. Lecture/recitation.

For more information, contact: LYNDIA CIUFFETTI, 2082 CORD, 541-737-3451

This course combines approximately 120 hours of instruction, online activities, and assignments for 4 credits.

Required textbook:

Plant Physiology by Taiz and Zeiger, Fifth Edition

Website for text and additional information: <http://www.sinauer.com/detail.php?id=8667>

NOTE: For textbook accuracy, please always check the textbook list at the [OSU Bookstore website](#). Sample syllabi may not have the most up-to-date information.

Lecture Topics

- Week 1 Plant cells, their cell walls and water
- Week 2 Mineral nutrition, transport and assimilation
- Week 3 **(Unit 1 exam Wednesday)** Photosynthesis: the thylakoid reactions
- Week 4 Carbon fixation reactions and ecology, Respiration and lipid metabolism
- Week 5 Secondary metabolites **(Unit 2 exam Friday)**
- Week 6 Signal Transduction, Early Development and Meristems
- Week 7 Light control of development
- Week 8 **(Unit 3 exam Monday)** Auxins and Gibberellins
- Week 9 Cytokinins, Brassinosteroids and Ethylene
- Week 10 Abscisic acid

This course is offered through Oregon State University Extended Campus. For more information, contact:
Web: ecampus.oregonstate.edu **Email:** ecampus@oregonstate.edu **Telephone:** 800-667-1465

Week 11 Final Exam (**Only covers Unit4**; it is not cumulative)

Recitation: Create a Connections Page based off the week's reading and lecture assignments.

Week1 Connections Page due Thursday

Week2 Connections Page due Thursday

Week3 **No Connections Page**

Week4 Connections Page due Thursday

Week5 **No Connections Page**

Recitation Topics contined:

Week6 Connections Page due Thursday

Week7 Connections Page due Thursday

Week8 **No Connections Page**

Week9 Connections Page due Thursday

Week10 **No Connections Page**

BOT 331 Student Learning Outcomes

At the end of this course, students will be able to:

1. **Recognize** the chemical constituents of plant cells, **identify** the source of these constituents and **communicate** the physiological role of each constituent.
2. **Comprehend** how plants capture solar radiation and use the energy to fix carbon.
3. **Understand** how plant hormones regulate growth, development, and responses to the environment and stress.

Evaluation of Student Performance:

Lecture: Midterm exams and the Final exam are worth **85 points**. Exams will comprise definitions, true/false (explain why), and short answer questions. Practice exams are available prior to exams.

There is also a weekly discussion board worth **5 pts** (Total = **45 pts**).

Recitation: There are 6 Connections Pages to create. Creating a page and responding to another page is worth **15 points** (Total = **90 pts**).

The total points possible are **475**. A grading scale will be posted before the final exam.

Course is in Canvas - go to oregonstate.instructure.com and enter your ONID username and password.

Statement Regarding Students with Disabilities:

Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for

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contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 737-4098.

Statement of Expectations for Student Conduct:

<http://oregonstate.edu/admin/stucon/achon.htm>

TECHNICAL ASSISTANCE:

If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the [OSU Computer Helpdesk](#) online.

- [COURSE DEMO](#)
- [GETTING STARTED](#)

COURSE SITE LOGIN INFORMATION

Information on how to login to your course site can be found [HERE](#).

REFUND POLICY INFORMATION

Please see the [Ecampus website](#) for policy information on refunds and late fees.