

**Botany 3015-0001 (87738)**  
**Principles of Plant Science, Fall 2022**  
**P mode (f2f)**

Lecture: T, Th 12-1:20 pm  
Pre-Requisite: BSC 2011C

Room : CB2 # 0207  
Credit: 3 (3, 0)

**Instructor:** Dr. Elizabeth Harris

**Office:** BIO 102A

**Phone:** (BIO main office, leave message)  
407 823-2141

**Email:** elizabeth.harris@ucf.edu or through WebCourses

Please note: I will check my email from 9am to 5 pm. I do not check my email regularly during evening hours so if you send something to me late at night, I might not see it until the next morning--*please plan accordingly.*

**Office Hours:** Fridays from noon-2 pm. Individual meetings with students via Zoom arranged by email.

**Course Description:** Introduction to core botanical concepts: diversity in the Plant Kingdom, structure and function, growth and development, photosynthesis and water relations and ecology.

**Prerequisite:** BSC 2011 (Biology II)

**Objectives:**

- An understanding of the major groups of land plants (Embryophyta), their evolutionary history and what distinguishes the major lineages from each other
- Competency with cell and tissue types and their basic function in vascular plants.
- Knowledge of the unique growth and development patterns and tissues seen in plants
- Understanding of basic metabolism in plants with regards to photosynthesis
- Understanding the significance of water relations, water uptake and plant macro- and micro-nutrient uptake strategies
- Overview of plants in the environment and their importance in different terrestrial habitats
- Combating Plant Blindness!

**Required materials:**

-Stern's Introductory Plant Biology, 15<sup>th</sup> edition, by McGraw-Hill Education, **with** Connect access. If purchasing from the UCF Bookstore, make sure to specify that Dr. Harris is the instructor. If purchasing before August 28, you may choose the "opt-in" option which gives you a better price and automatically places the charge on your UCF account. This can be done directly from the WebCourses site by clicking "course materials" in the left column.

-Computer, internet access, Chrome browser, and UCF e-mail required.

-Smartphone with a camera will be required for weekly Get Outside assignments

-TopHat app/subscription for phone or other device.

**Top Hat:** We will be using the Top Hat ([www.tophat.com](http://www.tophat.com)) classroom response system in class for attendance tracking and in-class quizzes (for credit). You will be able to use Apple or Android smartphones, tablets, or laptops. **PLEASE only login and use 1 device in the classroom at a time** (you don't have to use the same device for each class). Set-up your Top Hat account **before** you come to class, we will start using it for attendance and in class questions starting on August 30 and then use it for every class period from then on.

You can visit the Top Hat Overview (<https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide>) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.

An email invitation will be sent to you by email, but if don't receive this email, you can register by simply visiting our course website and entering our Unique Course URL:

[app.tophat.com/e/826100](http://app.tophat.com/e/826100)

Our Course Join Code is: 826100

Top Hat requires a paid subscription of \$30. If you have already purchased Top Hat to use in another class, you will not need to purchase again, simply enter the Course Join Code. Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email ([support@tophat.com](mailto:support@tophat.com)), the in app support button, or by calling 1-888-663-5491.

Top Hat Questions in lecture--Top Hat questions during lecture will be worth a total of 100 points by the end of the semester.

Attendance extra credit points—Top Hat will be used to take attendance during the first 10 minutes of each lecture. During that time you will be able to sign in on your device with the unique code projected on the screen. After 12:10, I will disable that code. Note that the code cannot be entered remotely; you must be present in the classroom. There are 50 points possible for attendance, beginning with week 2. Each **ON TIME** attendance check in will be worth 2.5 points (capped at 50 maximum) and will be added to the total of the student's raw points at the end of the semester (i.e. they will **NOT** be added as percentage points). Unfortunately, there will be **no** makeup for missing attendance extra credit points.

**Completing the START HERE module including taking the course survey will activate the subsequent 15 modules in a sequential manner.** In other words, you cannot jump around in the modules, they must be worked in a sequential manner.

**Lectures:** There will be **2 lectures** a week, unless an exam is scheduled for one of those days (see schedule at the end of the syllabus). The lectures will be given face-to-face on T and Th from noon until 1:20 in CB2 room 207. **In person attendance is required** and will be taken at the beginning of each class using the attendance feature of TopHat. There will be a short quiz at the end of every lecture which will also be accomplished with TopHat. Students who miss class for an accepted excused absence will need to email me within 48 hours from the missed class start time and provide some kind of appropriate documentation. Upon receiving the documentation, I will provide the student with a prerecorded video of the missed lecture and a makeup quiz.

**Exams:** All scheduled exams are mandatory; none are dropped in this course. They will be given in the classroom at the scheduled time.

**Makeup Policy:** All late or missed exams/assignments will be assigned a value of “0” within 24 hours of the due date of the assignment. (Note on the course schedule that all weekly quizzes and online homework assignments are due on Sundays at 11:59 pm).

If there is a legitimate reason/excuse for missing an assignment/quiz or exam due date, it is the student’s responsibility to communicate with me. If you have a valid, documented reason for missing a scheduled exam (from doctor, police, judge, official UCF event, etc.), you must contact me **within 24 hours of the start of that class and make arrangements to provide me with appropriate documentation of your absence.** After that, I will schedule a make-up or open up the assignment again, etc.

**Grading Policy:**

Course Survey	10
TopHat in class Quizzes (20 @ 5 pts each)	100
Exams (no drops): 5 @ 100 pts each	500
Online Connect homework: 20 @ 15 pts each	300
Weekly Get Outside assignments & online quizzes: 15 @ 10 pts each	150
Final Exam (cumulative)	100
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Total	1160

All points are equal in value; none are weighted. Students can track their total points in the Gradebook on Webcourses.

I record grades based on the percentage of total points that you have accumulated in the course. You can see my point cut-offs below. There is no extra credit in this course, nor do I round up beyond what I have listed below. Please do not ask for extra work or extra credit at the end of the class in order to gain a few more points and make a certain grade threshold.

89.5-100% = A	948 - 1060	points
79.5-89.4% = B	842 - 947.4	
69.5-79.4% = C	736 - 841.4	
59.5-69.4% = D	630 - 735.4	
0-59.4% = F	0 - 629.4	

**Weekly Get Outside Assignments and Quizzes:** The weekly Get Outside assignments have been designed to add a self-directed active learning component outside of the lecture setting. Each week there will be a different assignment that relates to one of the concepts presented in lecture that week. The student will be asked to get outside on the UCF campus OR surrounding areas and find specific examples of plant material and take a picture of the subject for that week with a cell phone (and the student's ID or the student themselves, depending on the item for the week). The student will then email or download the picture to their computer and then upload the image as the first portion of the weekly quiz. They will then answer a few short questions pertaining to their subject for the week. If a particular assignment presents some sort of problem, please contact me **by noon on the Wednesday** of that week so that we can work out an accommodation.

**Connect/SmartBook Homework:** This adaptive online homework is supported by your textbook publisher and provides valuable practice in mastering concepts from the text. It can be accessed through the course's home page on WebCourses (it appears in the left column). The first time it is used, you will be asked to enter the access code that came with your textbook. (There is also an option to purchase the code then and there along with a digital version of the text, if desired). After that first time, clicking on the McGraw-Hill Connect button in WebCourses will take you directly to there. All homework assignments are due weekly on Sundays at 11:59 p.m. and correspond to the week that that chapter is covered in lecture (with a few exceptions; check the schedule). They have been designed to take from 20-50 minutes to complete. If you are not well prepared, the assignments will take longer or you may even get booted out back to the ebook and told to read up on a particular section. I have personally authored many of the questions that will be popping up for you so you may well remember a turn of phrase that I used in lecture. Note that multiple wrong answers are not penalized; if you eventually answer questions correctly and thereby display mastery of the concept in each section, you will earn all of the possible points. So just keep working at it! Other best practices include: reading the chapter first and listening to the lecture at least once, using the latest version of Firefox, having a reliable internet connection and starting well before the due date. If you are having trouble accessing the site, try a different computer. If all else fails, call McGraw-Hill Customer Experience Group for help:

1-800-331-5094.

Make sure to get a case number. **And then let me know what's happening (including your case number).** I can extend deadlines if I know that there is a genuine issue (starting the assignment at 11:50 pm and not getting done in time is **not** a genuine issue). All of which is to say: please begin your assignment early so that if there are any problems, there is time to work them out.

**Disability Access Statement:** The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students with disabilities who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has met with the professor to request accommodations. Students who need accommodations must be registered with Student Accessibility Services, Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

**General Conduct:** By enrolling at UCF, all students have agreed to abide by the Golden Rule. Please become familiar with this document at: <http://www.goldenrule.sdes.ucf.edu/>

***Note that the instructor reserves the right to make changes to the syllabus or other aspects of the course at any time. These changes will be announced on WebCourses on the Announcements page.***

**BOT 3015, Fall 2022 Schedule. Changes will be announced as necessary.**

<b>Week/ Mod.</b>	<b>Dates</b>	<b>Lecture</b>	<b>LearnSmart Homework</b>	<b>Get Outside Assignment</b> <i>Please check on full description of assignment in WebCourses each Monday. If it is problematic for you as described, communicate with Dr. Harris by Wednesday of that week to arrange for an acceptable alternative.</i>
<b>1</b>	8-23  8-25	Course Intro Ch. 1, What is Plant Bio  Ch. 3, Plant cells	<b>Ch. 1</b> , due 8-28 by 11:59pm  <b>Ch. 3</b> , due 8-28 by 11:59pm	-Read article on “Plant Blindness” in WebCourses.  -Take <b>Quiz 1</b> on the article, due 8-28 by 11:59pm.
<b>2</b>	8-30  9-1	Ch. 4, Plant Tissues  Ch. 5, Roots and Soils	<b>Ch. 4</b> , due 9-4 by 11:59pm  <b>Ch. 5</b> , due 9-4 by 11:59pm	-Find 4 different examples of plant fibers in textiles (from your closet, or a store), take photos of tags with your ID.  -Take <b>Quiz 2</b> , upload photos and answer questions, due 9-4 by 11:59pm.
<b>3</b>	9-6  9-8	Ch. 6, Stems  <b>EXAM 1</b> (Chs. 1, 3, 4, 5)	<b>Ch. 6</b> , due 9-11 by 11:59pm	-Find an underground root or stem (from nature or from a grocery store), take photo with your ID. -Take <b>Quiz 3</b> , upload photo and answer questions, due 9-11 by 11:59pm.
<b>4</b>	9-13  9-15	Ch. 7, Leaves  Ch. 8, Flowers, Fruits & Seeds	<b>Ch. 7</b> , due 9-18 by 11:59pm <b>Ch. 8</b> , due 9-18 by 11:59pm	-Find a leaf, fruit and flower (from nature or from a grocery store), take photos with your ID. -Take <b>Quiz 4</b> , upload photos and answer questions, due 9-18 by 11:59pm.
<b>5</b>	9-20  9-22	Ch. 9, Water in Plants  Ch. 10, Plant Metabolism (Photosynthesis)	<b>Ch. 9</b> , due 9-25 by 11:59pm  <b>Ch. 10</b> , due 9-25 by 11:59pm	-Obtain 2 non-woody plants (from nature), place one in water and leave one out for 24 hours. Take photo of both with your ID. -Take <b>Quiz 5</b> , upload photo and answer questions, due 9-25 by 11:59pm.
<b>6</b>	9-27  9-29	<b>EXAM 2</b> (Chs. 6, 7, 8, 9)  Ch. 11, Growth & Development	<b>Ch. 11</b> , due 10-2 by 11:59pm	-Take a walk outside anywhere and take 2 different photos of “unwanted” plant growth with your ID. -Take <b>Quiz 6</b> , upload photos and answer questions, due 10-2 by 11:59pm.

<b>7</b>	10-4	Ch. 12, Meiosis & Alt.of Gen.	<b>Ch. 12</b> , due 10-9 by 11:59pm	-Take a walk around campus (or suitable substitute <b>with</b> approval) and take photos of 5 different plant labels with your ID.
	10-6	Ch. 14, Life Cycles & Taxonomy	<b>Ch. 16</b> , due 10-9 by 11:59pm	-Take <b>Quiz 7</b> , upload photos, due 10-9 by 11:59pm.
<b>8</b>	10-11	Ch. 18, Algae	<b>Ch. 18</b> , due 10-16 by 11:59 pm	-Visit a pet store that has aquaria. Take a photo of algae growing in a fish tank with your ID.
	10-13	<b>EXAM 3</b> (Chs. 10, 11, 12, 16)		-Take <b>Quiz 8</b> , upload photo, and answer questions, due 10-16 by 11:59pm.
<b>9</b>	10-18	Ch. 20, Plant Kingdom, Bryophytes	<b>Ch. 20</b> , due 10-23 by 11:59pm	-Take a walk on campus or in nature and take a closeup photo of a bryophyte and your ID.
	10-20	Ch. 21, Ferns & Fern Allies		-Take <b>Quiz 9</b> , upload photo, and answer questions, due 10-23 by 11:59pm.
<b>10</b>	10-25	Ch. 21, cont.	<b>Ch. 21</b> , due 10-30 by 11:59pm	-Take a walk on campus or in nature and take a photo of a fern or fern ally and your ID.
	10-27	Ch. 22, Gymnosperms		-Take <b>Quiz 10</b> , upload photo, and answer questions, due 10-30 by 11:59pm.
<b>11</b>	11-1	Ch. 22, cont.	<b>Ch. 22</b> , due 11-6 by 11:59pm	-Take a walk on campus or in nature and take a photo of a gymnosperm and your ID.
	11-3	<b>EXAM 4</b> (Chs. 18, 20, 21, 22)		-Take <b>Quiz 11</b> , upload photo, and answer questions, due 11-6 by 11:59pm.
<b>12</b>	11-8	Ch. 23, Angiosperms	<b>Ch. 23</b> , due 11-13 by 11:59pm	-Take a walk on campus or in nature and take a photo of an angiosperm and your ID.
	11-10	Ch. 23, cont.		-Take <b>Quiz 12</b> , upload photo, and answer questions, due 11-13 by 11:59pm.
<b>13</b>	11-15	Ch. 24, Ethnobotany	<b>Ch. 24</b> , due 11-20 by 11:59pm	-Go to a drugstore or grocery store vitamin & supplement aisle and take 5 different photos of medications or supplements derived from plants with your ID
	11-17	Ch. 25, Plant Ecology	<b>Ch. 25</b> , due 11-20 by 11:59pm	-Take <b>Quiz 13</b> , upload photos, and answer questions, due 11-20 by 11:59pm.

<b>14</b>	11-22	Ch. 26, Biomes	<b>No homework</b>	-Go to 3 different UCF Arboretum Trails or other natural areas and take a selfie with your ID <b>and</b> the signage located there.
	11-24	<b>THANKSGIVING HOLIDAY</b>		-Take <b>Quiz 14</b> , upload photos, and answer questions, due 12-4 by 11:59pm.
<b>15</b>	11-29	Ch. 26, cont.	<b>Ch. 26</b> , due 12-4 by 11:59pm	-Reflect on this course and what you have learned this semester
	12-1	<b>EXAM 5</b> (Chs. 23, 24, 25, 26)		-Take <b>Quiz 15</b> , and answer 2 reflection questions on your experience and learning in this course, due 12-4 by 11:59pm.
<b>Final</b>	12-8	Final Exam	10 am-12:50 pm	