

BOT2011 Plant Diversity (Natural Sciences – B)

Course Syllabus

Contact Information

Instructor

Dr. Stuart McDaniel

Phone Number

Content

Email

stuartmcdaniel@ufl.edu

Office Hours

Content

Teaching Assistant

Content

For questions about course content, your grade, or other personal issues, email the instructor team. Expect a response within 24 hours on weekdays and 48 hours on weekends.

Course Information

BOT2011C - Plant Diversity is a survey of major plant groups with regard to structure, life histories, and uses accompanied by a laboratory showing the diversity of plants in the world.

Credit Hours: 4

Course Description

The earth today contains a tremendous diversity of photosynthetic organisms - what processes explain how they evolved and why they persist? In this class, we survey the biological diversity of modern algae and land plants, with an eye toward understanding why studying plant diversity is important in our modern society. We consider first the traditional classification of plants, and how this system has been revolutionized by phylogenetic analyses of genetic and

now genomic data. We then turn to study the evolutionary processes that generate biodiversity and the ecological processes that shape this diversity. Finally, we turn to critically evaluating perceived threats to biodiversity, including invasive species, nitrogen deposition, global warming, and transgenic crops. Throughout the semester we read a mix of journal articles from the primary literature as well as popular science pieces. In the labs, students will see examples of the species we discuss in class and learn to identify key traits and species. After completing the course students will develop a timeline of the main events in the history of photosynthetic organisms, an overview of their diversity, and a conceptual understanding of the processes that generate and maintain this diversity.

Course Objectives

By the end of this course, you will be able to:

1. Arrange a timeline of the main events in the history of photosynthetic organisms.
2. Describe the morphological and phylogenetic diversity within plants.
3. Explain the processes that generate and maintain this diversity.

Course Requirements

Required Textbook

***Demons in Eden: The Paradox of Plant Diversity*, Jonathan Silvertown, Cambridge Univ. Press, 2008.**

Please purchase your textbook through Perusall. You can access Perusall to purchase this text through the "Chapter 1 Reflection - An Evolving Eden" assignment in Module 1.

Additional resources: You may find *Principles of Life, second edition*, by Hillis et al.

(Sinauer / Macmillan), or *Biology of Plants*, by Raven et al., (Freeman / Macmillan) to be a

useful supplement, as well as *Stern's Introductory Plant Biology*, James Bidlack

and Shelley
Jansky, McGrawHill Press, 15th Edition, 2020.

Prerequisites

Introductory college biology/botany course or equivalent.

Minimum Technology Requirements

The University of Florida expects students entering an online program to acquire computer hardware and software appropriate to their degree program. Most computers are capable of meeting the following general requirements. A student's computer configuration should include:

- **Webcam**
- **Microphone**
- **Broadband connection to the internet and related equipment (cable/DSL modem)**
- **Microsoft Office Suite installed (provided by the university)**

Individual colleges may have additional requirements or recommendations, which students should review before starting their program.

It is the responsibility of the student to maintain a functioning computing system and internet connection that can meet the minimum technical requirements of the course.

Computing/internet connectivity issues will not be acceptable excuses for missed deadlines unless they are brought to the attention of the instructor at least 48 hours prior to the deadline and accompanied by the ticket number from technical support. See the "Getting Help" section for more information on technical support.

Minimum Technical Skills

To complete your tasks in this course, you will need a basic understanding of operating a computer and using word processing software.

Materials/Supply Fees

There is no supply fee for this course.

Zoom

Zoom is an easy-to-use video conferencing service available to all UF students, faculty, and staff that allows for meetings of up to 100 participants.

You can find resources and help using Zoom at the [University of Florida's](#)

[Zoom](#) [Links to an external site.](#) website.

Course Policies

This course is designed to be as flexible as possible to accommodate the variation of schedules typical of a remote student. For that reason, all content for each week will open on Sunday at 12:00 a.m. and all assignments will be due eight days later on Monday at 11:59 p.m. except for initial discussion posts.

Beware! With flexibility comes the temptation to put off assignments until the last minute. Please do not wait until the last minute! Mastering the content of this course will require that you take careful notes during lectures and while reading, to prepare for each week's quiz. It is very important that you follow the sequence of the instructional materials and assignments in order to be successful.

As this is an online class, you are responsible for observing all posted due dates and are encouraged to be self-directed and take responsibility for your learning.

Requirements for make-up exams, assignments, and other work in this course are consistent with university policies that can be found on [UF's](#)

[Attendance Policies](#) [Links to an external site.](#) website.

Grading Policy

The instructor team will make every effort to have each assignment graded and posted within one week of the due date. Grading turnaround time is subject to change via announcement.

Any requests for regrades or investigation of grading discrepancies must be submitted via email to the instructor team within one week of receiving a grade.

Course Grading Policy

Type of Assessment	Number of Assessments	Percentage of Final Grade	Lowest Grade(s) Dropped
Assignments	20	32%	3
Discussions	10	30%	1
Labs	11	24%	2
Quizzes	13	12%	3
Pre and Post Test	2	2%	0

Grading Scale

Point Range (%)	Letter Grade
100 - 90.00%	A
89.99 - 86.66%	A-
86.65 - 83.33%	B+
83.32 - 80.00%	B
79.99 - 76.66%	B-
76.65 - 73.33%	C+
73.32 - 70.00%	C
69.99 - 66.66%	C-
66.65 - 63.33%	D+
63.32 - 60.00%	D
59.99 - 56.66%	D-
56.65 and below	E

UF Policies

University Policy on Accommodating Students with Disabilities

Students with disabilities requesting accommodations should first register with the [Disability Resource Center](#) [Links to an external site.](#) (352-392-8565) by providing appropriate documentation. Once registered, students will receive an accommodation letter that must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

University Policy on Academic Conduct

UF students are bound by The Honor Pledge, which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code." On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The [Student Honor Code and Student Conduct](#)

[Code](#) [Links to an external site.](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Plagiarism

The [Student Honor Code and Student Conduct Code](#) [Links to an external site.](#) states that:

"A Student must not represent as the Student's own work all or any portion of the work of another. Plagiarism includes but is not limited to:

- Stealing, misquoting, insufficiently paraphrasing, or patch-writing.
- Self-plagiarism, which is the reuse of the Student's own submitted work, or the simultaneous submission of the Student's own work, without the full and clear acknowledgment and permission of the Faculty to whom it is submitted.
- Submitting materials from any source without proper attribution.

- Submitting a document, assignment, or material that, in whole or in part, is identical or substantially identical to a document or assignment the Student did not author."

Netiquette and Communication Courtesy

It is important to recognize that the online classroom is in fact a classroom, and certain behaviors are expected when you communicate with both your peers and your instructors. These guidelines for online behavior and interaction are known as netiquette.

<u>Security</u>
<ul style="list-style-type: none">• General Guidelines• Email• Discussion Boards• Zoom

Remember that your password is the only thing protecting you from pranks or more serious harm.

- Don't share your password with anyone.
- Change your password if you think someone else might know it.
- Always log out when you are finished using the system.

Getting Help

Technical Difficulties

For help with technical issues or difficulties with Canvas, please contact the UF Computing Help Desk at:

- <http://helpdesk.ufl.edu> **Links to an external site.**
- 352-392-HELP (4357)
- Walk-in: HUB 132

Any requests for make-ups (assignments, exams, etc.) due to technical issues should be accompanied by the ticket number received from the UF Computing Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You should email your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Health and Wellness

- **U Matter, We Care:** If you or someone you know is in distress, please email umatter@ufl.edu, call 352-392-1575, or visit [U Matter We Care](#) **Links to an external site.** to refer or report a concern, and a team member will reach out to the student in distress.
- **Counseling and Wellness Center:** Visit the [UF Counseling & Wellness Center](#) **Links to an external site.** website or call 352-392-1575 for information on crisis services and non-crisis services.
- **Student Health Care Center:** Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the [UF Student Health Care Center](#) **Links to an external site.** website.
- **Hitchcock Field and Fork Pantry:** If you are struggling with food insecurity, please visit the [Hitchcock Field & Fork Pantry website](#) **Links to an external site..**
- **University Police Department:** Visit the [UF Police Department](#) **Links to an external site.** website or call 352-392-1111 (or 9-1-1 for emergencies).
- **UF Health Shands Emergency Room/Trauma Center:** For immediate medical care in Gainesville, call 352-733-0111, or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the [UF Health Shands Emergency Room/Trauma Center](#) **Links to an external site.** website.

Academic and Student Support

- **Career Connections Center:** For career assistance and counseling services, visit the [UF Career Connections Center](#) **Links to an external site.** website or call 352-392-1601.
- **Library Support:** For various ways to receive assistance concerning using the libraries or finding resources, visit the [UF George A. Smathers Libraries Ask-A-Librarian](#) **Links to an external site.** website.

- **Teaching Center:** For general study skills and tutoring, visit the [UF Teaching Center](#) [Links to an external site.](#) website or call 352-392-2010.
- **Writing Studio:** For help with brainstorming, formatting, and writing papers, visit the [University Writing Program](#) [Writing Studio](#) [Links to an external site.](#) website or call 352-846-1138.

Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available on the

GatorEvals [Providing Constructive Feedback](#) [Links to an external site.](#) FAQ page. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu

under GatorEvals, or via the [GatorEvals](#) [Links to an external site.](#) website. Summaries of course evaluation results are available

to students at the [GatorEvals Public Results](#) [Links to an external site.](#) page. More information about UF's course evaluation system

can be found at the [GatorEvals Faculty Evaluations](#) [Links to an external site.](#) website.

Tips for Success

Taking a course online can be a lot of fun! Here are some tips that will help you get the most of this course while taking full advantage of the online format:

- **Schedule "class times" for yourself.** It is important to do the coursework on time each week. You will receive a reduction in points for work that is turned in late!
- **Read ALL of the material contained on this site.** There is a lot of helpful information that can save you time and help you meet the objectives of the course.
- **Print out the Course Summary located in the Course Syllabus and check things off as you go.**

- Take full advantage of the online discussion boards. Ask for help or clarification of the material if you need it.
- Do not wait to ask questions! Waiting to ask a question might cause you to miss a due date.
- Do your work well before the due dates. Sometimes things happen. If your computer goes down when you are trying to submit an assignment, you'll need time to troubleshoot the problem.
- To be extra safe, back up your work to an external hard drive, thumb drive, or through a cloud service.

Privacy and Accessibility Policies

For information about the privacy policies of the tools used in this course, see the links below:

- Adobe
 - [Adobe Privacy Policy](#) Links to an external site.
 - [Adobe Accessibility](#) Links to an external site.
- Instructure (Canvas)
 - [Instructure Privacy Policy](#) Links to an external site.
 - [Instructure Accessibility](#) Links to an external site.
- Microsoft
 - [Microsoft Privacy Policy](#) Links to an external site.
 - [Microsoft Accessibility](#) Links to an external site.
- Perusall
 - [Perusall Privacy Policy](#) Links to an external site.
 - [Perusall Accessibility](#) Links to an external site.

- **Sonic Foundry (Mediasite Streaming Video Player)**
 - [Sonic Foundry Privacy Policy](#) **Links to an external site.**
 - [Sonic Foundry Accessibility](#) **Links to an external site. (PDF)**
- **YouTube (Google)**
 - [YouTube \(Google\) Privacy Policy](#) **Links to an external site.**
 - [YouTube \(Google\) Accessibility](#) **Links to an external site.**
- **Zoom**
 - [Zoom Privacy Policy](#) **Links to an external site.**
 - [Zoom Accessibility](#) **Links to an external site.**

Course Orientation

Course Orientation

- **Complete One Item**

Published. [Click to unpublish Course Orientation.](#) Add Content to Course Orientation

- [Start Here: Essential Course Overview](#)

Page

[Start Here: Essential Course Overview](#)

View Must view in order to complete this module item

Published. [Click to unpublish Start Here: Essential Course Overview.](#)

[Manage Start Here: Essential Course Overview](#)

- [Student Support and Resources](#)

Page

[Student Support and Resources](#)

View Must view in order to complete this module item

Published. [Click to unpublish Student Support and Resources.](#)

[Manage Student Support and Resources](#)

- [Introduce Yourself!](#)

Discussion Topic

[Introduce Yourself!](#)

ContributeMust contribute to this module item to complete it
Published. [Click to unpublish Introduce Yourself!](#)

[Manage Introduce Yourself!](#)

- [Syllabus Quiz](#)

Quiz

[Syllabus Quiz](#)

Jan 10, 2023

11 pts

SubmitMust submit this module item to complete it

Published. [Click to unpublish Syllabus Quiz.](#)

[Manage Syllabus Quiz](#)

- [Have a Question? Post Here!](#)

Discussion Topic

[Have a Question? Post Here!](#)

Published. [Click to unpublish Have a Question? Post Here!.](#)

[Manage Have a Question? Post Here!](#)

Module 1: Convergent Evolution

Module 1: Convergent Evolution

Prerequisites: Course Orientation

- **[Complete All Items](#)**

Published. [Click to unpublish Module 1: Convergent Evolution.](#)

- [Module 1: Instructional Materials](#)

Page

[Module 1: Instructional Materials](#)

Published. [Click to unpublish Module 1: Instructional Materials.](#)

[Manage Module 1: Instructional Materials](#)

- [Module 1 Assignment: Adaptations](#)

Assignment

[Module 1 Assignment: Adaptations](#)

Jan 11, 2023

2 pts

Published. [Click to unpublish Module 1 Assignment: Adaptations.](#)

[Manage Module 1 Assignment: Adaptations](#)

- [Module 1 Discussion: Convergent Evolution](#)

Discussion Topic

[Module 1 Discussion: Convergent Evolution](#)

Jan 16, 2023

2 pts

Published. [Click to unpublish Module 1 Discussion: Convergent Evolution.](#)

[Manage Module 1 Discussion: Convergent Evolution](#)

- [Module 1 Quiz](#)

Quiz

[Module 1 Quiz](#)

Jan 14, 2023

1.5 pts

Published. [Click to unpublish Module 1 Quiz.](#)

[Manage Module 1 Quiz](#)

- [The Experimental Test \(no need to study\)](#)

Quiz

[The Experimental Test \(no need to study\)](#)

Jan 14, 2023

36 pts

Submit Must submit this module item to complete it

Published. [Click to unpublish The Experimental Test \(no need to study\).](#)

[Manage The Experimental Test \(no need to study\)](#)

Module 2: Introduction to Taxonomy and Phylogenetics

Module 2: Introduction to Taxonomy and Phylogenetics

Published. [Click to unpublish Module 2: Introduction to Taxonomy and](#)

[Phylogenetics.](#)[Add Content to Module 2: Introduction to Taxonomy and Phylogenetics](#)

- [Module 2: Instructional Materials](#)

Page

[Module 2: Instructional Materials](#)

Published. [Click to unpublish Module 2: Instructional Materials.](#)

[Manage Module 2: Instructional Materials](#)

- [Module 2 Discussion: The Whittaker Five Kingdom System of Classification](#)

Discussion Topic

[Module 2 Discussion: The Whittaker Five Kingdom System of Classification](#)

Jan 21, 2023

2 pts

Published. [Click to unpublish Module 2 Discussion: The Whittaker Five Kingdom System of Classification .](#)

[Manage Module 2 Discussion: The Whittaker Five Kingdom System of Classification](#)

- [Module 2 Laboratory: Phylogeny and Classification](#)

Page

[Module 2 Laboratory: Phylogeny and Classification](#)

Published. [Click to unpublish Module 2 Laboratory: Phylogeny and Classification.](#)

[Manage Module 2 Laboratory: Phylogeny and Classification](#)

- [Module 2 Lab Journal Submission](#)

Assignment

[Module 2 Lab Journal Submission](#)

Jan 21, 2023

2 pts

Published. [Click to unpublish Module 2 Lab Journal Submission.](#)

[Manage Module 2 Lab Journal Submission](#)

- [Module 2 Quiz](#)

Quiz

Module 2 Quiz

Jan 21, 2023

1.5 pts

Published. [Click to unpublish Module 2 Quiz.](#)

[Manage Module 2 Quiz](#)

Module 3: Biogeography and Speciation

Module 3: Biogeography and Speciation

Published. [Click to unpublish Module 3: Biogeography and Speciation.](#) [Add Content to Module 3: Biogeography and Speciation](#)

- **Module 3: Instructional Material**

Page

Module 3: Instructional Material

Published. [Click to unpublish Module 3: Instructional Material.](#)

[Manage Module 3: Instructional Material](#)

- **Module 3 Assignment: Physical Biogeography**

Assignment

Module 3 Assignment: Physical Biogeography

Jan 24, 2023

2 pts

Published. [Click to unpublish Module 3 Assignment: Physical Biogeography.](#)

[Manage Module 3 Assignment: Physical Biogeography](#)

- **Module 3 Reflection 1: Phylogeography and Pre-zygotic Isolating Mechanisms**

Assignment

Module 3 Reflection 1: Phylogeography and Pre-zygotic Isolating Mechanisms

Jan 28, 2023

1 pts

Published. [Click to unpublish Module 3 Reflection 1: Phylogeography and Pre-zygotic Isolating Mechanisms.](#)

[Manage Module 3 Reflection 1: Phylogeography and Pre-zygotic Isolating Mechanisms](#)

- **Module 3 Reflection 2: Life History Trade-offs**

Assignment

Module 3 Reflection 2: Life History Trade-offs

Jan 28, 2023

1 pts

Published. [Click to unpublish Module 3 Reflection 2: Life History Trade-offs.](#)

[Manage Module 3 Reflection 2: Life History Trade-offs](#)

- **Module 3 Discussion: A Paradox**

Discussion Topic

Module 3 Discussion: A Paradox

Jan 28, 2023

2 pts

Published. [Click to unpublish Module 3 Discussion: A Paradox.](#)

- [Manage Module 3 Discussion: A Paradox](#)
- [Module 3 Quiz](#)
Quiz
Module 3 Quiz
Jan 28, 2023
1.5 pts
[Published. Click to unpublish Module 3 Quiz.](#)
[Manage Module 3 Quiz](#)

Module 4: Cyanobacteria

Module 4: Cyanobacteria

[Published. Click to unpublish Module 4: Cyanobacteria.](#)[Add Content to Module 4: Cyanobacteria](#)

- [Module 4: Instructional Materials](#)
Page
Module 4: Instructional Materials
[Published. Click to unpublish Module 4: Instructional Materials.](#)
[Manage Module 4: Instructional Materials](#)
- [Module 4 Assignment 1: The Evolution of Photosynthesis](#)
Assignment
Module 4 Assignment 1: The Evolution of Photosynthesis
Feb 1, 2023
2 pts
[Published. Click to unpublish Module 4 Assignment 1: The Evolution of Photosynthesis.](#)
[Manage Module 4 Assignment 1: The Evolution of Photosynthesis](#)
- [Module 4 Laboratory: Cyanobacteria](#)
Page
Module 4 Laboratory: Cyanobacteria
[Published. Click to unpublish Module 4 Laboratory: Cyanobacteria.](#)
[Manage Module 4 Laboratory: Cyanobacteria](#)
- [Module 4 Lab Journal Submission](#)
Assignment
Module 4 Lab Journal Submission
Feb 4, 2023
2 pts
[Published. Click to unpublish Module 4 Lab Journal Submission.](#)
[Manage Module 4 Lab Journal Submission](#)
- [Module 4 Assignment 2 : Cyanobacterial Bloom](#)
Assignment
Module 4 Assignment 2 : Cyanobacterial Bloom
Feb 4, 2023
2 pts
[Published. Click to unpublish Module 4 Assignment 2 : Cyanobacterial Bloom.](#)
[Manage Module 4 Assignment 2 : Cyanobacterial Bloom](#)

- [Module 4 Quiz](#)
Quiz
Module 4 Quiz
Feb 4, 2023
1.5 pts
[Published. Click to unpublish Module 4 Quiz.](#)
[Manage Module 4 Quiz](#)

Module 5: Endosymbiosis

Module 5: Endosymbiosis

[Published. Click to unpublish Module 5: Endosymbiosis .Add Content to Module 5: Endosymbiosis](#)

- [Module 5: Instructional Materials](#)
Page
Module 5: Instructional Materials
[Published. Click to unpublish Module 5: Instructional Materials.](#)
[Manage Module 5: Instructional Materials](#)
- [Module 5 Group Work Assignment and Peer Review](#)
Assignment
Module 5 Group Work Assignment and Peer Review
Feb 8, 2023
2 pts
[Published. Click to unpublish Module 5 Group Work Assignment and Peer Review.](#)
[Manage Module 5 Group Work Assignment and Peer Review](#)
- [Module 5 Peer-review Grade](#)
Assignment
Module 5 Peer-review Grade
Feb 11, 2023
1 pts
[Published. Click to unpublish Module 5 Peer-review Grade .](#)
[Manage Module 5 Peer-review Grade](#)
- [Module 5 Laboratory: Endosymbiosis and Eukaryotes](#)
Page
Module 5 Laboratory: Endosymbiosis and Eukaryotes
[Published. Click to unpublish Module 5 Laboratory: Endosymbiosis and Eukaryotes.](#)
[Manage Module 5 Laboratory: Endosymbiosis and Eukaryotes](#)
- [Module 5 Laboratory: Endosymbiosis and Eukaryotes \(Most recent but incomplete\) \(don't publish!\)](#)
Page
Module 5 Laboratory: Endosymbiosis and Eukaryotes (Most recent but incomplete) (don't publish!)
Unpublished. Click to publish Module 5 Laboratory: Endosymbiosis and Eukaryotes (Most recent but incomplete) (don't publish!).

Manage Module 5 Laboratory: Endosymbiosis and Eukaryotes (Most recent but incomplete) (don't publish!)

- [Module 5 Lab Journal Submission](#)

Assignment

[Module 5 Lab Journal Submission](#)

Feb 11, 2023

2 pts

Published. [Click to unpublish Module 5 Lab Journal Submission.](#)

[Manage Module 5 Lab Journal Submission](#)

- [Module 5 Quiz](#)

Quiz

[Module 5 Quiz](#)

Feb 11, 2023

1.5 pts

Published. [Click to unpublish Module 5 Quiz.](#)

[Manage Module 5 Quiz](#)

Module 6: The Diversity of Algae

Module 6: The Diversity of Algae

Published. [Click to unpublish Module 6: The Diversity of Algae.](#)[Add Content to Module](#)

6: The Diversity of Algae

- [Module 6: Instructional Materials \(with lab\)](#)

Page

[Module 6: Instructional Materials \(with lab\)](#)

Unpublished. [Click to publish Module 6: Instructional Materials \(with lab\).](#)

[Manage Module 6: Instructional Materials \(with lab\)](#)

- [Module 6: Instructional Materials](#)

Page

[Module 6: Instructional Materials](#)

Published. [Click to unpublish Module 6: Instructional Materials.](#)

[Manage Module 6: Instructional Materials](#)

- [Module 6 Peer-reviewed Activity: Biofuels](#)

Assignment

[Module 6 Peer-reviewed Activity: Biofuels](#)

Feb 15, 2023

1 pts

Published. [Click to unpublish Module 6 Peer-reviewed Activity: Biofuels.](#)

[Manage Module 6 Peer-reviewed Activity: Biofuels](#)

- [Module 6 Assignment 1: Life Cycles of Brown Algae](#)

Assignment

[Module 6 Assignment 1: Life Cycles of Brown Algae](#)

Feb 16, 2023

2 pts

Published. [Click to unpublish Module 6 Assignment 1: Life Cycles of Brown Algae.](#)

- [Manage Module 6 Assignment 1: Life Cycles of Brown Algae](#)
- [Module 6 Assignment 2: Phylogeny of Heterokonts](#)
 Assignment
[Module 6 Assignment 2: Phylogeny of Heterokonts](#)
 Feb 18, 2023
 2 pts
 Published. [Click to unpublish Module 6 Assignment 2: Phylogeny of Heterokonts.](#)
[Manage Module 6 Assignment 2: Phylogeny of Heterokonts](#)
- [Module 6 Laboratory: Diversity of Free Living Algae \(DON'T PUBLISH\)](#)
 Page
[Module 6 Laboratory: Diversity of Free Living Algae \(DON'T PUBLISH\)](#)
 Unpublished. [Click to publish Module 6 Laboratory: Diversity of Free Living Algae \(DON'T PUBLISH\).](#)
[Manage Module 6 Laboratory: Diversity of Free Living Algae \(DON'T PUBLISH\)](#)
- [Module 6 Lab Journal Submission \(DON'T PUBLISH\)](#)
 Assignment
[Module 6 Lab Journal Submission \(DON'T PUBLISH\)](#)
 2 pts
 Unpublished. [Click to publish Module 6 Lab Journal Submission \(DON'T PUBLISH\).](#)
[Manage Module 6 Lab Journal Submission \(DON'T PUBLISH\)](#)
- [Module 6 Quiz](#)
 Quiz
[Module 6 Quiz](#)
 Feb 18, 2023
 1.5 pts
 Published. [Click to unpublish Module 6 Quiz.](#)
[Manage Module 6 Quiz](#)

Mid-course Survey

Mid-course Survey

Prerequisites: Module 6: The Diversity of Algae

Published. [Click to unpublish Mid-course Survey.](#) [Add Content to Mid-course Survey](#)

- [Mid-Course Survey](#)

Quiz

[Mid-Course Survey](#)

Published. [Click to unpublish Mid-Course Survey.](#)

[Manage Mid-Course Survey](#)

Module 7: Symbiosis and Parasitism

Module 7: Symbiosis and Parasitism

Prerequisites: Mid-course Survey

Published. [Click to unpublish Module 7: Symbiosis and Parasitism.](#) [Add Content to](#)

[Module 7: Symbiosis and Parasitism](#)

- [Module 7: Instructional Materials](#)
Page
Module 7: Instructional Materials
[Published. Click to unpublish Module 7: Instructional Materials.](#)
[Manage Module 7: Instructional Materials](#)
- [Module 7 Assignment 1: Life Cycle of an Oomycete](#)
Assignment
Module 7 Assignment 1: Life Cycle of an Oomycete
Feb 23, 2023
2 pts
[Published. Click to unpublish Module 7 Assignment 1: Life Cycle of an Oomycete.](#)
[Manage Module 7 Assignment 1: Life Cycle of an Oomycete](#)
- [Module 7 Assignment 2: Drawing Phylogeny](#)
Assignment
Module 7 Assignment 2: Drawing Phylogeny
Feb 23, 2023
2 pts
[Published. Click to unpublish Module 7 Assignment 2: Drawing Phylogeny.](#)
[Manage Module 7 Assignment 2: Drawing Phylogeny](#)
- [Module 7 Peer-reviewed Activity: Chloroplast in the Oomycetes](#)
Assignment
Module 7 Peer-reviewed Activity: Chloroplast in the Oomycetes
Feb 22, 2023
1 pts
[Published. Click to unpublish Module 7 Peer-reviewed Activity: Chloroplast in the Oomycetes.](#)
[Manage Module 7 Peer-reviewed Activity: Chloroplast in the Oomycetes](#)
- [Module 7 Group Work Assignment](#)
Discussion Topic
Module 7 Group Work Assignment
Feb 25, 2023
2 pts
[Published. Click to unpublish Module 7 Group Work Assignment.](#)
[Manage Module 7 Group Work Assignment](#)
- [Module 7 Laboratory: Parasites and Symbionts](#)
Page
Module 7 Laboratory: Parasites and Symbionts
[Published. Click to unpublish Module 7 Laboratory: Parasites and Symbionts.](#)
[Manage Module 7 Laboratory: Parasites and Symbionts](#)
- [Module 7 Lab Journal Submission](#)
Assignment
Module 7 Lab Journal Submission
Feb 25, 2023
2 pts

Published. [Click to unpublish Module 7 Lab Journal Submission.](#)
[Manage Module 7 Lab Journal Submission](#)

- [Module 7 Quiz](#)

Quiz

[Module 7 Quiz](#)

Feb 25, 2023

1.5 pts

Published. [Click to unpublish Module 7 Quiz.](#)

[Manage Module 7 Quiz](#)

Module 8: The Maintenance of Species Diversity

Module 8: The Maintenance of Species Diversity

Published. [Click to unpublish Module 8: The Maintenance of Species Diversity.](#)Add Content to Module 8: The Maintenance of Species Diversity

- [Module 8: Instructional Materials \(with no labs\) \(real one\)](#)

Page

[Module 8: Instructional Materials \(with no labs\) \(real one\)](#)

Unpublished. [Click to publish Module 8: Instructional Materials \(with no labs\) \(real one\).](#)

[Manage Module 8: Instructional Materials \(with no labs\) \(real one\)](#)

- [Module 8: Instructional Materials](#)

Page

[Module 8: Instructional Materials](#)

Published. [Click to unpublish Module 8: Instructional Materials.](#)

[Manage Module 8: Instructional Materials](#)

- [Module 8 Assignment 1: Chapter 5 Panama Paradox](#)

Assignment

[Module 8 Assignment 1: Chapter 5 Panama Paradox](#)

Mar 2, 2023

2 pts

Published. [Click to unpublish Module 8 Assignment 1: Chapter 5 Panama Paradox.](#)

[Manage Module 8 Assignment 1: Chapter 5 Panama Paradox](#)

- [Module 8 Assignment 2: Chapter 6 Nix Nitch](#)

Assignment

[Module 8 Assignment 2: Chapter 6 Nix Nitch](#)

Mar 11, 2023

2 pts

Published. [Click to unpublish Module 8 Assignment 2: Chapter 6 Nix Nitch.](#)

[Manage Module 8 Assignment 2: Chapter 6 Nix Nitch](#)

- [Module 8 Group Work Assignment](#)

Assignment

[Module 8 Group Work Assignment](#)

Mar 11, 2023

2 pts

- Published. [Click to unpublish Module 8 Group Work Assignment.](#)
[Manage Module 8 Group Work Assignment](#)
- [Module 8 Peer-reviewed Activity: The effect of invasive species on the maintenance of species diversity](#)
 Assignment
Module 8 Peer-reviewed Activity: The effect of invasive species on the maintenance of species diversity
 Mar 2, 2023
 1 pts
 Published. [Click to unpublish Module 8 Peer-reviewed Activity: The effect of invasive species on the maintenance of species diversity.](#)
[Manage Module 8 Peer-reviewed Activity: The effect of invasive species on the maintenance of species diversity](#)
- [Module 8 Laboratory: Diversity of Free Living Algae](#)
 Page
Module 8 Laboratory: Diversity of Free Living Algae
 Published. [Click to unpublish Module 8 Laboratory: Diversity of Free Living Algae.](#)
[Manage Module 8 Laboratory: Diversity of Free Living Algae](#)
- [Module 8 Lab Journal Submission](#)
 Assignment
Module 8 Lab Journal Submission
 Mar 11, 2023
 2 pts
 Published. [Click to unpublish Module 8 Lab Journal Submission.](#)
[Manage Module 8 Lab Journal Submission](#)
- [Module 8 Quiz](#)
 Quiz
Module 8 Quiz
 Mar 11, 2023
 1.5 pts
 Published. [Click to unpublish Module 8 Quiz.](#)
[Manage Module 8 Quiz](#)

Module 9: The Colonization of Land

Module 9: The Colonization of Land

Published. [Click to unpublish Module 9: The Colonization of Land.](#)[Add Content to Module 9: The Colonization of Land](#)

- [Module 9: Instructional Materials](#)
 Page
Module 9: Instructional Materials
 Published. [Click to unpublish Module 9: Instructional Materials.](#)
[Manage Module 9: Instructional Materials](#)
- [Module 9 Assignment 1: Phylogeny of Land Plants](#)
 Assignment

Module 9 Assignment 1: Phylogeny of Land Plants

Mar 16, 2023

2 pts

Published. [Click to unpublish Module 9 Assignment 1: Phylogeny of Land Plants .](#)
[Manage Module 9 Assignment 1: Phylogeny of Land Plants](#)

- **Module 9 Assignment 2: Land Plants**

Assignment

Module 9 Assignment 2: Land Plants

Mar 16, 2023

2 pts

Published. [Click to unpublish Module 9 Assignment 2: Land Plants.](#)
[Manage Module 9 Assignment 2: Land Plants](#)

- **GoFlag Activity: Carbon Bank, Bog Bodies, and You**

Assignment

GoFlag Activity: Carbon Bank, Bog Bodies, and You

Mar 16, 2023

2 pts

Published. [Click to unpublish GoFlag Activity: Carbon Bank, Bog Bodies, and You.](#)

[Manage GoFlag Activity: Carbon Bank, Bog Bodies, and You](#)

- **Module 9 Reflection on a Paper about Mosses**

Assignment

Module 9 Reflection on a Paper about Mosses

Mar 18, 2023

1 pts

Published. [Click to unpublish Module 9 Reflection on a Paper about Mosses.](#)
[Manage Module 9 Reflection on a Paper about Mosses](#)

- **Module 9 Laboratory: Bryophyte**

Page

Module 9 Laboratory: Bryophyte

Published. [Click to unpublish Module 9 Laboratory: Bryophyte.](#)
[Manage Module 9 Laboratory: Bryophyte](#)

- **Module 9 Lab Journal Submission**

Assignment

Module 9 Lab Journal Submission

Mar 18, 2023

2 pts

Published. [Click to unpublish Module 9 Lab Journal Submission.](#)
[Manage Module 9 Lab Journal Submission](#)

- **Module 9 Quiz**

Quiz

Module 9 Quiz

Mar 18, 2023

1.5 pts

Published. [Click to unpublish Module 9 Quiz.](#)

[Manage Module 9 Quiz](#)

Module 10: The Evolution of Vascular Plants

Module 10: The Evolution of Vascular Plants

Published. [Click to unpublish Module 10: The Evolution of Vascular Plants.](#) [Add Content to Module 10: The Evolution of Vascular Plants](#)

- [Module 10: Instructional Materials](#)

Page

[Module 10: Instructional Materials](#)

Published. [Click to unpublish Module 10: Instructional Materials.](#)

[Manage Module 10: Instructional Materials](#)

- [Module 10 Assignment: Land Plant Phylogeny](#)

Assignment

[Module 10 Assignment: Land Plant Phylogeny](#)

Mar 23, 2023

2 pts

Published. [Click to unpublish Module 10 Assignment: Land Plant Phylogeny.](#)

[Manage Module 10 Assignment: Land Plant Phylogeny](#)

- [Module 10 Laboratory A: Lycophytes](#)

Page

[Module 10 Laboratory A: Lycophytes](#)

Published. [Click to unpublish Module 10 Laboratory A: Lycophytes .](#)

[Manage Module 10 Laboratory A: Lycophytes](#)

- [Module 10 Lab A Journal Submission](#)

Assignment

[Module 10 Lab A Journal Submission](#)

Mar 25, 2023

1 pts

Published. [Click to unpublish Module 10 Lab A Journal Submission.](#)

[Manage Module 10 Lab A Journal Submission](#)

- [GoFlag Activity: Lycophytes and You](#)

Assignment

[GoFlag Activity: Lycophytes and You](#)

Mar 23, 2023

2 pts

Published. [Click to unpublish GoFlag Activity: Lycophytes and You.](#)

[Manage GoFlag Activity: Lycophytes and You](#)

- [Module 10 Reflection on a Paper about Desiccation Tolerance in Ferns](#)

Assignment

[Module 10 Reflection on a Paper about Desiccation Tolerance in Ferns](#)

Mar 25, 2023

1 pts

Published. [Click to unpublish Module 10 Reflection on a Paper about Desiccation Tolerance in Ferns.](#)

[Manage Module 10 Reflection on a Paper about Desiccation Tolerance in Ferns](#)

- [Module 10 Discussion: Fern Gametophytes](#)
Discussion Topic
Module 10 Discussion: Fern Gametophytes
Mar 22, 2023
2 pts
[Published. Click to unpublish Module 10 Discussion: Fern Gametophytes.](#)
[Manage Module 10 Discussion: Fern Gametophytes](#)
- [Module 10 Laboratory B: Ferns](#)
Page
Module 10 Laboratory B: Ferns
[Published. Click to unpublish Module 10 Laboratory B: Ferns.](#)
[Manage Module 10 Laboratory B: Ferns](#)
- [Module 10 Lab B Journal Submission](#)
Assignment
Module 10 Lab B Journal Submission
Apr 1, 2023
1 pts
[Published. Click to unpublish Module 10 Lab B Journal Submission.](#)
[Manage Module 10 Lab B Journal Submission](#)
- [GoFlag Activity: Ferns](#)
Assignment
GoFlag Activity: Ferns
Mar 30, 2023
2 pts
[Published. Click to unpublish GoFlag Activity: Ferns.](#)
[Manage GoFlag Activity: Ferns](#)
- [Module 10 Quiz](#)
Quiz
Module 10 Quiz
Apr 1, 2023
1.5 pts
[Published. Click to unpublish Module 10 Quiz.](#)
[Manage Module 10 Quiz](#)

Module 11: The Evolution of Seed Plants

Module 11: The Evolution of Seed Plants

[Published. Click to unpublish Module 11: The Evolution of Seed Plants.](#) Add Content to Module 11: The Evolution of Seed Plants

- [Module 11: Instructional Materials](#)
Page
Module 11: Instructional Materials
[Published. Click to unpublish Module 11: Instructional Materials.](#)
[Manage Module 11: Instructional Materials](#)
- [Module 11 Assignment 1: Seed Plants](#)
Assignment

Module 11 Assignment 1: Seed Plants

Apr 6, 2023

2 pts

Published. [Click to unpublish Module 11 Assignment 1: Seed Plants.](#)

[Manage Module 11 Assignment 1: Seed Plants](#)

- [Module 11 Assignment 2: The Evolution of a Seed Assignment](#)

Module 11 Assignment 2: The Evolution of a Seed

Apr 6, 2023

2 pts

Published. [Click to unpublish Module 11 Assignment 2: The Evolution of a Seed.](#)

[Manage Module 11 Assignment 2: The Evolution of a Seed](#)

- [Module 11 Peer-reviewed Activity: Annual Tree Rings Assignment](#)

Module 11 Peer-reviewed Activity: Annual Tree Rings

Apr 5, 2023

1 pts

Published. [Click to unpublish Module 11 Peer-reviewed Activity: Annual Tree Rings.](#)

[Manage Module 11 Peer-reviewed Activity: Annual Tree Rings](#)

- [Module 11 Laboratory: Gymnosperms Page](#)

Module 11 Laboratory: Gymnosperms

Published. [Click to unpublish Module 11 Laboratory: Gymnosperms.](#)

[Manage Module 11 Laboratory: Gymnosperms](#)

- [Module 11 Lab Journal Submission Assignment](#)

Module 11 Lab Journal Submission

Apr 8, 2023

2 pts

Published. [Click to unpublish Module 11 Lab Journal Submission.](#)

[Manage Module 11 Lab Journal Submission](#)

- [Module 11 Quiz Quiz](#)

Module 11 Quiz

Apr 8, 2023

1.5 pts

Published. [Click to unpublish Module 11 Quiz.](#)

[Manage Module 11 Quiz](#)

Voluntary Research Participation

Voluntary Research Participation

- **Complete All Items**

Published. [Click to unpublish Voluntary Research Participation.](#)Add Content to Voluntary Research Participation

- [Research on the course activities](#)
Discussion Topic
[Research on the course activities](#)
ViewMust view in order to complete this module item
[Published. Click to unpublish Research on the course activities.](#)
[Manage Research on the course activities](#)

Module 12: The Evolution of the Angiosperms

Module 12: The Evolution of the Angiosperms

Prerequisites: Voluntary Research Participation

[Published. Click to unpublish Module 12: The Evolution of the Angiosperms.](#)Add Content to Module 12: The Evolution of the Angiosperms

- [Module 12: Instructional Materials](#)
Page
[Module 12: Instructional Materials](#)
[Published. Click to unpublish Module 12: Instructional Materials.](#)
[Manage Module 12: Instructional Materials](#)
- [Module 12 Assignment: Angiosperm Life Cycle](#)
Assignment
[Module 12 Assignment: Angiosperm Life Cycle](#)
Apr 16, 2023
2 pts
[Published. Click to unpublish Module 12 Assignment: Angiosperm Life Cycle.](#)
[Manage Module 12 Assignment: Angiosperm Life Cycle](#)
- [Module 12 Group Work Assignment and Peer Review](#)
Assignment
[Module 12 Group Work Assignment and Peer Review](#)
Apr 16, 2023
2 pts
[Published. Click to unpublish Module 12 Group Work Assignment and Peer Review.](#)
[Manage Module 12 Group Work Assignment and Peer Review](#)
- [Module 12 Peer-review Grade](#)
Assignment
[Module 12 Peer-review Grade](#)
Apr 18, 2023
1 pts
[Published. Click to unpublish Module 12 Peer-review Grade .](#)
[Manage Module 12 Peer-review Grade](#)
- [Module 12 Discussion: Transition](#)
Discussion Topic
[Module 12 Discussion: Transition](#)
Apr 16, 2023
2 pts
[Published. Click to unpublish Module 12 Discussion: Transition.](#)

- Manage Module 12 Discussion: Transition
- [Module 12 Peer-reviewed Activity: Long-leaf Pine Savannah Assignment](#)
[Module 12 Peer-reviewed Activity: Long-leaf Pine Savannah](#)
 Apr 16, 2023
 1 pts
 Published. [Click to unpublish Module 12 Peer-reviewed Activity: Long-leaf Pine Savannah.](#)
[Manage Module 12 Peer-reviewed Activity: Long-leaf Pine Savannah](#)
- [Module 12 Laboratory A: Flowers and Fruits Page](#)
[Module 12 Laboratory A: Flowers and Fruits](#)
 Published. [Click to unpublish Module 12 Laboratory A: Flowers and Fruits.](#)
[Manage Module 12 Laboratory A: Flowers and Fruits](#)
- [Module 12 Lab A Journal Submission Assignment](#)
[Module 12 Lab A Journal Submission](#)
 Apr 16, 2023
 1 pts
 Published. [Click to unpublish Module 12 Lab A Journal Submission.](#)
[Manage Module 12 Lab A Journal Submission](#)
- [Module 12 Laboratory B: Carnivorous Plants Page](#)
[Module 12 Laboratory B: Carnivorous Plants](#)
 Published. [Click to unpublish Module 12 Laboratory B: Carnivorous Plants .](#)
[Manage Module 12 Laboratory B: Carnivorous Plants](#)
- [Module 12 Lab B Journal Submission Assignment](#)
[Module 12 Lab B Journal Submission](#)
 Apr 16, 2023
 1 pts
 Published. [Click to unpublish Module 12 Lab B Journal Submission.](#)
[Manage Module 12 Lab B Journal Submission](#)
- [Module 12 Quiz Quiz](#)
[Module 12 Quiz](#)
 Apr 16, 2023
 1.5 pts
 Published. [Click to unpublish Module 12 Quiz.](#)
[Manage Module 12 Quiz](#)

End-of-course Survey

End-of-course Survey

- [Complete All Items](#)

Published. [Click to unpublish End-of-course Survey.](#) Add Content to End-of-course Survey

- [End-of-course Survey](#)
Quiz
[End-of-course Survey](#)
Apr 22, 2023
Submit Must submit this module item to complete it
[Published. Click to unpublish End-of-course Survey.](#)
[Manage End-of-course Survey](#)

Module 13: Plant Domestication

Module 13: Plant Domestication

Prerequisites: End-of-course Survey

- [Complete All Items](#)

Published. [Click to unpublish Module 13: Plant Domestication.](#) Add Content to Module 13: Plant Domestication

- [Experimental Test 2](#)
Quiz
[Experimental Test 2](#)
36 pts
Submit Must submit this module item to complete it
[Published. Click to unpublish Experimental Test 2.](#)
[Manage Experimental Test 2](#)
- [Bonus Point Opportunity](#)
Page
[Bonus Point Opportunity](#)
View Must view in order to complete this module item
[Published. Click to unpublish Bonus Point Opportunity.](#)
[Manage Bonus Point Opportunity](#)
- [Module 13: Instructional Materials](#)
Page
[Module 13: Instructional Materials](#)
[Published. Click to unpublish Module 13: Instructional Materials.](#)
[Manage Module 13: Instructional Materials](#)
- [Module 13 Assignment 1: The Domestication Syndrome](#)
Assignment
[Module 13 Assignment 1: The Domestication Syndrome](#)
Apr 25, 2023
2 pts
[Published. Click to unpublish Module 13 Assignment 1: The Domestication Syndrome.](#)
[Manage Module 13 Assignment 1: The Domestication Syndrome](#)
- [Module 13 Assignment 2: Genetic Variation in Crop Wild Relatives](#)
Assignment
[Module 13 Assignment 2: Genetic Variation in Crop Wild Relatives](#)

Apr 25, 2023

2 pts

Published. [Click to unpublish Module 13 Assignment 2: Genetic Variation in Crop Wild Relatives.](#)

[Manage Module 13 Assignment 2: Genetic Variation in Crop Wild Relatives](#)

- [Module 13 Peer-reviewed Activity: Genetic Modification of Plants](#)
Assignment

[Module 13 Peer-reviewed Activity: Genetic Modification of Plants](#)

Apr 22, 2023

1 pts

Published. [Click to unpublish Module 13 Peer-reviewed Activity: Genetic Modification of Plants.](#)

[Manage Module 13 Peer-reviewed Activity: Genetic Modification of Plants](#)

- [Module 13 Discussion: Transgenic Crops, High-efficiency Agriculture, and Biodiversity Loss](#)

Discussion Topic

[Module 13 Discussion: Transgenic Crops, High-efficiency Agriculture, and Biodiversity Loss](#)

Apr 25, 2023

2 pts

Published. [Click to unpublish Module 13 Discussion: Transgenic Crops, High-efficiency Agriculture, and Biodiversity Loss.](#)

[Manage Module 13 Discussion: Transgenic Crops, High-efficiency Agriculture, and Biodiversity Loss](#)

- [Module 13 Quiz](#)
Quiz

[Module 13 Quiz](#)

Apr 25, 2023

1.5 pts

Published. [Click to unpublish Module 13 Quiz.](#)

[Manage Module 13 Quiz](#)

References

References

Published. [Click to unpublish References.](#)[Add Content to References](#)

- [Reference List](#)

Page

[Reference List](#)