Course Description
This is a survey of life characteristics of the plant-like and fungi-like protists, plants, and fungi.

Student Learning Outcomes
The learning outcomes for this course include:

- Identification of the cells, tissues, and organs that make up a multicellular plant or fungus body.
- Explanation of how structures are related to function and how they allow organisms to carry on fundamental life processes in different environments.
- Determination of the major characteristics of the phyla (= division) of plant-like and fungi-like protists in the Kingdom Protista and the characteristics of members of the Kingdom Plantae, and Kingdom Fungi (Myxomycota).
- Investigation of the relatedness among these groups and their major evolutionary pathways.
- Recognition of the importance of plants and fungi in human ecology.

Meeting Times and Places
Lecture: 12:30pm-1:45 TR, Cavness 019: Lab: 2-4:50pm, either T or R as enrolled, Cavness 116 and 123.

Required Materials

Top Hat: Top Hat will be used to record daily lecture quiz scores and class attendance. You should have received an invitation to join via email. ASU provides a discount for students. Go to this site to learn how to obtain the special price. The join code for Botany is 351970.
https://www.angelo.edu/content/profiles/9491-top-hat/Templates/profiles-elearning-support#students

Final Grade Calculation
There will be two components to the final course grade, your lecture grade and lab grade. The lecture grade will be calculated using the average of your four lecture exams and the average of homework/class quizzes. The lab average will be based on scores for the three lab practices and
the average of your ten best post lab quizzes. Lecture will count for 75% of your final grade (final average x 0.75) and lab will contribute 25% of your grade (final average x 0.25). The two percentages will be summed to determine the course grade. Grades will be assigned based on the following scale: 89.5-100%=A, 79.5-89.4%=B, 69.5-79.4%=C, 59.5-69.4%=D, below 59.4%=F. No exceptions.

Lecture Instruction, Make-Up Exams and Extra Points
Lecture: Our lecture time will be used for lecture, class discussion, exercises, and quizzes which will include questions from past lectures and homework assignments. Quizzes will be administered via Top Hat or Blackboard. No make ups will be available on quizzes; however, your three lowest scores will be dropped before the final average is calculated. Lectures will be delivered via PowerPoint; PowerPoints will be available on Blackboard. Study guides, practice quizzes and worksheets, and links to helpful web sites are also available on Blackboard. Exams 1-4 will be a combination of multiple choice, fill-in-the-blank, true/false, and short answer questions. Exams 1-4 are each worth 100 points. If you have taken Exams 1-4, you have the option of taking a multiple-choice Comprehensive Final Exam which is also worth 100 points; the grade on this exam can be used to replace your lowest exam score. If your grade on the Optional Comprehensive Exam is lower than your scores on exam 1-4, the grade will not replace another exam grade nor will it be used in your final grade calculations. Questions for each exam will be taken from lectures and assignments. You will need a #2 pencil for each exam.

Make-Up Exams: No make-up exams will be given with the exception of approved university sponsored events. If you are going to miss a scheduled exam because of an event, you must notify me in writing at least 7 days before the scheduled exam. With this done, you will be allowed to take the exam BEFORE your departure. Otherwise, if you miss one of the first four exams, you must take the Optional Comprehensive Final Exam. Your grade on the Comprehensive Exam will replace the 0 for the missed exam. For example, if your exam scores for exams 1-4 are 90, 0, 80, 70 and you make a 75 on the Comprehensive Exam the 0 will become a 75. You will only be allowed to “make-up” one exam during the semester by substituting it with a grade from the Optional Comprehensive Final Exam.

Post Exam Reviews: A part of each scheduled class period after exams 1-3 will be used to discuss the questions on the exam. During the review you will have an opportunity to check my calculations in determining your grade, get guidance as to how to evaluate and answer questions, and clarify your understanding of information covered on the exam. You are NOT permitted to record/copy the questions. However, I will keep the exams on file in my office and you may make an appointment with me to study them. If you attend and participate in the exam review (i.e. pay attention, ask questions, don’t work on other assignments) you will earn 2 points which will be added to that exam score.

Lab Instruction and Extra Points: Most labs consist of self-paced exercises. Before each lab you are to do three things: read/study a Blackboard pre-lab exercise (required), take a quiz over the pre-lab exercise (optional), and bring either a hardcopy or electronic version of the appropriate lab exercise with you to lab (required).
Lab Practicals: There will be a total of 300 points from three 100-point lab practicals. All practicals will begin at 2:00pm during your regularly scheduled lab period. In cases of an excused university absence or illness you must contact me prior to your scheduled lab practice to arrange for a make-up, otherwise, no make-up will be available.

Pre-lab Reading Assignments and Pre-lab Quizzes: You may review the pre-lab assignment and take the pre-lab quiz as many times as you wish, unless otherwise instructed; your highest grade will be recorded. The pre-lab tasks are to provide you with background information that will help you understand the lab better and work more effectively during the scheduled time. The pre-lab quizzes are not required; however, if you take ALL of the pre-lab quizzes and have a 70% or higher average on your final pre-lab quiz average, you will earn 50 points that will be added to your total lab points (i.e. before the average calculation). NOTE: you are NOT allowed to take a pre-lab quiz with any form of help from another student; this is dishonest and will be dealt with as such.

Post-Lab Quizzes: Another 100 points will be based on an average of 10 individual 100-point post lab quizzes; all labs will have a post lab quiz. Quizzes will be given either at the beginning of lab in CAV123 or on Blackboard. No make-ups will be given nor will questions be repeated for latecomers. At least twelve post-lab quizzes will be given; your ten best scores will be used to compute your average.

Attendance and Participation
I will take roll each lecture using Top Hat. I expect you to be present, on time, and be an active participant for all classes and labs. If I see that you are working on homework for another class, studying for another course, or using an electronic device for purposes other than botany, I will ask you to leave the classroom or lab. You are required to sign out of lab and record the time you left. Attendance is critical for learning the information and performing well on exams and practicals. If you miss no more than 1 scheduled event (= lecture or lab), I will add 1 point to your final course average. If you miss more than 4 events, your final average will be dropped one letter grade.

Lecture and Examination Schedule
Before each scheduled class you are to:

- Read the assigned chapter (study illustrations and learn vocabulary).
- If you wish, you may go to Blackboard, Botany Lecture and download the PowerPoint lecture notes for that day’s class. If you must print a copy, print the note version, print front to back or print on the back of used paper. [I reserve the right to make last minute changes that may require updating the posted version immediately before class or after class.]
- Learn information from past lectures to the point you are ready to take a major exam on the information.
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<thead>
<tr>
<th>Date/Day</th>
<th>Topic/Activity</th>
<th>Assignment</th>
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<tbody>
<tr>
<td>Jan. 14 - Jan. (6 lectures)</td>
<td>Intro to Botany; Why Study Plants?</td>
<td>Syllabus</td>
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<tr>
<td>Overview of Plant Life (Textbook Assignment)</td>
<td>Chapter 1</td>
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<td>Molecular Composition of Plant Cells</td>
<td>Chapter 2</td>
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<td>Plant Cells</td>
<td>Chapter 3</td>
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<td>Tissues, Tissue Systems, Meristems</td>
<td>Chapter 23</td>
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<td>Feb. 4</td>
<td>Exam #1</td>
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<td>Feb. 6-25 (6 lectures)</td>
<td>Exam 1 Review</td>
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<td>The Root: Structure and Development</td>
<td>Chapter 24</td>
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<td>Herbaceous Stems</td>
<td>Chapter 25</td>
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<td>Secondary Growth in Stems</td>
<td>Chapter 26</td>
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<td>Leaves and the Flow of Energy (photosynthesis)</td>
<td>Chapter 25, Chapter 5</td>
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<td>Mar. 3</td>
<td>Exam #2</td>
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<td>Mar. 5 - Apr. (Spring Break March 9-13th) (6 lectures)</td>
<td>Exam 2 Review; Reproduction in Plants</td>
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<td>Systematics: The Science of Biological Diversity</td>
<td>Chapter 12</td>
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<td>Protists: Algae</td>
<td>Chapter 15</td>
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<td>Non-Vascular Plants (NVP)</td>
<td>Chapter 16</td>
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<td>Seedless Vascular Plants (SVP)</td>
<td>Chapter 17</td>
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<td>Apr. 7</td>
<td>Exam #3</td>
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<td>Apr 9-30 (6 lectures)</td>
<td>Exam 3 Review</td>
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<td>Gymnosperms</td>
<td>Chapter 18</td>
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<td>Angiosperms (Chapter 5, read flower development)</td>
<td>Chapters 19, 20, 25</td>
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<td>Fungi</td>
<td>Chapter 14</td>
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May 7 (R) 10:30am-12:30pm  Exam #4 and Optional Comprehensive Final Exam


**General Policies Related to this Course**
All students are required to follow the policies and procedures presented in these documents:


- Angelo State University Catalog [https://www.angelo.edu/content/files/26597-2019-2020-undergraduate-catalog-archive](https://www.angelo.edu/content/files/26597-2019-2020-undergraduate-catalog-archive)

**Academic Integrity**
Angelo State University expects its students to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject to disciplinary action and possible expulsion from ASU.
Accommodations for Students with Disabilities
ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation. The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Ms. Dallas A. Swafford Director of Student Disability Services
- 325-942-2047
- dallas.swafford@angelo.edu
- Houston Harte University Center

Student Absence for Observation of Religious Holy Days
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Title IX at Angelo State University
Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance. This is done in order to connect students with resources and options in addressing the allegations reported. As a student, are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone, J.D. michelle.boone@angelo.edu
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

**Incomplete Grade Policy**

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

**Plagiarism**

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft. In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list. Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

**Copyright Policy**

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