Name: Josephine Taylor
Department: Biology
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Phone: 468-2268; Please provide a local telephone number when requesting a return call.
Office: S106
Office Hours: 1:00 – 4:00 MW, 2:30 – 3:30 T, 2:30 – 4:00 R, or by appointment
Class meeting time and place: Lecture – 11:00 – 11:50 TR, room M213
Lab - 1:00 to 3:50 F, room S216
Text and Materials: (1) Introduction to Fungi, 3\textsuperscript{rd} edition, by Webster and Weber
(2) Subscription to Top Hat for in-class responses (https://tophat.com)
Join code 517749

Course Description:
Study of the structure, classification, and identification of fungi including those of economic importance.
Organisms now widely accepted as protists (slime molds, water molds) but traditionally studied by mycologists
are also included.

Number of Credit Hours: 3

Course Prerequisites and Corequisites: Prerequisites BIO 131 and BIO 133; Corequisite BIO 312L.

Program Learning Outcomes:
Program Learning Outcome #1: The student will demonstrate a good knowledge base in biological concepts and
be able to integrate knowledge with critical thinking skills to become problem solvers. Knowledge base will
include: levels of complexity (molecular/cellular through population/communities/ecosystems), biological
principles and processes.

Program Learning Outcome #4: The student will be able to design, carry out, and analyze experiments to
answer biological questions using scientific methods and instrumentation; safe and appropriate use of laboratory
equipment; experimental design; data analysis; and familiarity with professional standards in science.

General Education Core Curriculum Objectives/Outcomes:
This course is not included in the general education core curriculum.

Student Learning Outcomes:
Students who complete Mycology will be able to:
1. Describe the characteristics that delineate the various taxonomic groups (Phyla) of fungi and fungal-like
protists (PLO 1).
2. Outline the life cycles of representative species of important fungal groups (PLO 1).
3. Identify key morphological features of fungi, both macroscopic and microscopic (PLO1).
4. Discuss examples of nutritional relationships found in the fungi (PLO 1).
5. Describe specific examples of the societal impact of fungi, and well as their impact in natural and
agricultural ecosystems, industrial processes, and in diseases of plants, animals, and humans (PLO 1).
6. Demonstrate methods of working with fungi, including isolation, culture, and preparation for microscopy
(PLO 1, 4).
7. Identify many common fungi from a variety of environments (PLO 1, 4).
Course Requirements:
Three major tests will be given in lecture, each worth 100 points. The third test is the final exam, which will be non-comprehensive.

Three lab practicals will be given, each worth 50 points. The final lab practical will be on the Friday of Dead Week, Dec. 8.

A series of questions will be asked during each lecture and laboratory meeting using Top Hat (https://tophat.com; Join Code: 517749). By correctly answering these questions you may earn a maximum of 75 points. Responses may be submitted via a web browser, mobile device, or SMS/text messaging. Prepare by reviewing your notes, generating study aids, reading the text pages, and asking questions of Dr. Taylor about any concepts you do not understand fully.

Each student with complete a fungal collection for a total of 25 points. There are two components to the collection:

1. Collect and identify 10 macrofungi. Submit a written report identifying the substrate where found (soil, water, diseased plant tissue, mushrooms growing on wood, etc.) and the distinguishing features of each specimen.

2. Isolate and grow in pure culture 2 microfungi. Submit a written report identifying the substrate from which the isolate was collected and the distinguishing features of each culture. Deadline for submitting all specimens is Dec. 8.

Participation in the on-line student evaluations for both BIO 312 lecture and BIO 312L is a mandatory course requirement. Failure to participate will result in a 1% reduction in lecture and laboratory grades. Instructions for meeting this requirement will be given towards the end of the semester.

Course Calendar:

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<tr>
<th>Date</th>
<th>Topic</th>
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<tr>
<td>Tues. 8/29</td>
<td>Course policies, importance of fungi</td>
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<tr>
<td>Thur. 8/31</td>
<td>Characteristics of fungi</td>
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<td>Tues. 9/5</td>
<td>Characteristics of fungi</td>
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<td>Thur. 9/7</td>
<td>Intro to Basidiomycetes</td>
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<td>Tues. 9/12</td>
<td>Homobasidiomycetes</td>
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<td>Thur. 9/14</td>
<td>Homobasidiomycetes</td>
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<td>Tues. 9/19</td>
<td>Homobasidiomycetes</td>
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<td>Thur. 9/21</td>
<td>Gasteromycetes</td>
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<td>Tues. 9/26</td>
<td>Heterobasidiomycetes, Rust fungi</td>
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<td>Thur. 9/28</td>
<td>Rust fungi</td>
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<td>Tues. 10/3</td>
<td>Smut fungi, other Basidiomycetes</td>
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<td>Thur. 10/5</td>
<td>Lecture Exam I</td>
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<td>Tues. 10/10</td>
<td>Intro to Ascomycetes</td>
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<td>Thur. 10/12</td>
<td>Intro to Ascomycetes</td>
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<td>Tues. 10/17</td>
<td>Archiascomycetes, Hemiascomycetes</td>
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<td>Plectomycetes</td>
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<td>Pyrenomycetes</td>
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<td>Wed. 10/25</td>
<td>LAST DAY TO WITHDRAW WITH W</td>
<td>387-388</td>
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<td>Thur. 10/26</td>
<td>Erysiphales</td>
<td>390-403, 408-410</td>
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<tr>
<td>Tues. 10/31</td>
<td>Discomycetes</td>
<td>414-415, 423-429, 432-439, 673-678</td>
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Thur. 11/2  Lichenized fungi, Loculoascomycetes  446-458, 459-462, 469-472
Tues. 11/7  Lecture Exam II  478-479, 484-484

Thur. 11/9  Phylum Zygomycota  165-189
Tues. 11/14 Phylum Zygomycota  202-203, 211-225
Thurs. 11/16 Phylum Oomycota  65-70, 75-90
Tues. 11/28 Phylum Oomycota  95-124
Thur. 11/30 Phylum Chytridiomycota  127-133, 150-159
Tues. 12/5  Slime molds  40-41, 54-63
Thur. 12/7  Slime molds  42-53
Tues. 12/14 Final Exam 10:30 am – 12:30 pm

Lab Schedule:
Fri. 9/1  Lab 1 Intro to fungi
Fri. 9/8  Lab 2 Phylum Basidiomycota I
Fri. 9/15 Lab 3 Phylum Basidiomycota II
Fri. 9/22 Lab 4 Phylum Basidiomycota III
Fri. 9/29 Lab Practical I
Fri. 10/6 Lab 5 Phylum Ascomycota I
Fri. 10/13 Lab 6 Phylum Ascomycota II
Fri. 10/20 Lab 7 Phylum Ascomycota III
Fri. 10/27 Lab Practical II
Fri. 11/3  Lab 8 Zygomycetes
Fri. 11/10 Lab 9 Oomycetes and chytrids
Fri. 11/17 Lab 10 Slime molds
Fri. 12/1  Lab Practical III

Grading Policy:
Course grades will be assigned as follows (550 possible points):

  90+% of total points = A, 80 - 89% = B, 70 - 79% = C, 60 - 69% = D, Below 60% = F

There are no extra credit assignments in this course.

Attendance Policy:
Students must attend class/lab and answer all questions for the day to earn points for that session. There are no makeup opportunities for in-class points, regardless of the reason for the absence.

Only students with an excused absence will be allowed to make up missed exams. Makeup exams will be of a different format than the original test, consisting primarily of completion and short answer questions. Excused absences will be granted for: students participating in university sponsored events, serious illness, or a family emergency. A list of students to be absent from campus to attend various events is published and distributed to the faculty. Otherwise, you will need to bring written confirmation of illness or emergency from a doctor or family member to be granted an excused absence. University policy states that students with acceptable excuses will be permitted to make up work for absences to a maximum of 3 weeks of a semester (SFASU General Bulletin p. 46). ONCE YOU HAVE MISSED 6 CLASS MEETINGS (lectures and/or labs) DO NOT EXPECT ANY MAKEUP WORK FROM THE INSTRUCTOR. Students with unexcused absences will receive a 0 for missed exams and assignments.
Academic Integrity (A-9.1)  
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty  
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54)  
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities  
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Acceptable Student Behavior  
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.