

**Kennesaw State University**  
**Department of Molecular & Cellular Biology**  
***Mycology BIOL 4490***

**INSTRUCTOR:** Premila Achar  
**Lecture Room:** TBA  
**Course:**           **Lecture:** TBA  
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**Office Hours:** On Appointment  
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**COURSE DESCRIPTION**

Mycology is the study of FUNGI, both macroscopic and microscopic. It includes study of fungal diseases in higher plants, animals, and human beings as well as pharmacological and industrial products made by economically important fungi. This course includes instruction in cell and molecular biology; histopathology; fungal growth and behavior; environmental mycology; and fungal pathogens and pathogenesis.

**COURSE OBJECTIVES:**

*By the end of the course students will:*

1. Demonstrate knowledge in the basic understanding of the biology, taxonomy and phylogeny of fungi.
2. Describe important impacts fungi have on humans and natural ecosystems.
3. Describe the mechanisms and environmental conditions which facilitate fungal growth
4. Compare life histories of plant pathogens.
5. Illustrate the economic importance of fungi in industrial products for humans.

**PRE-REQUISITES:** pre- or co-requisite in BIOL 3340 or permission of the instructor

**TEXTBOOK:**

- Alexopoulos, C. J. Introductory Mycology, 1996 (4th ed.) John Wiley & Sons. ISBN 978-0-471-52229-4
- Additional readings of original research, reports, and handouts will be assigned during the semester.

**ATTENDANCE POLICY:**

**General Lecture Policies:**

- Attendance is *required* for periods in which an invited speaker or student presentation is scheduled.

- Participation in class activities will result in bonus points to earn extra credit. Class activities are not scheduled.
- If you miss a lecture, YOU are responsible for obtaining all notes, announcements, and assignments.
- Lecture notes will be available via D2L.
- The lecture schedule provided is TENTATIVE and subject to changes. Students will be notified of schedule changes as soon as possible in class or will be posted via D2L.
- Cellular telephones, pagers and other similar devices must be turned off during class.
- No snacking is allowed in the class room once lecture begins.
- If you miss class, it is your responsibility to get any missed notes and handout from another student. Instructor's Power point lectures/quiz/exam samples will be posted on D2L.

### **ASSIGNMENTS AND QUIZZES:**

- Assessments will take the form of Assignments, Quizzes, Class discussions, Group activities, Researcher papers and Oral presentations.
- Assignments are due before the end of the class period on the due date. An assignment is considered late if it is turned in once the class period of its due date has ended. All late assignments must be given directly to the instructor.
- **5 points** will be deducted/day from total points after each due date.
- Assignments may **not** be placed in the box on the instructor's door. Assignments may **not** be submitted electronically, except in extreme circumstances and with the **prior** approval of the instructor.
- All quizzes will be administered at the beginning of the class period on the scheduled day.
- Students are required to purchase scantron sheet from KSU bookshop for each exam.

***All quizzes, assignments, exams, and other course materials not collected by students will be shredded and recycled at the conclusion of the final exam period***

### **EXAM POLICY:**

Questions in exams are in the form of definitions, descriptions, drawings, problem analyzing and interpretation of data and multiple choices.

The grade in this course is determined by the total number of points earned (including extra credit) on examinations and other assigned work as listed below in "Course Grading Procedure". The dates for examinations are listed below. The final exam is cumulative.

***Answer sheets of final exams will be shredded and recycled if not collected within two weeks of the start of the next academic semester.***

## MAKING UP FOR MISSED LAB SESSIONS, QUIZZES, AND ASSIGNMENTS

- There is no Make-up labs for this course
- Make-ups exam will only be granted in extreme circumstances, and at the instructor's discretion. Examples of acceptable excuses include: serious illness, funeral and others with supporting documents. The determination of the validity of other excuses and the necessary documentation to support them will be at the instructor's discretion.
- Make-up examinations may consist of different question types, including essay questions, and they are usually more difficult than the scheduled examination.
- There is no make-up for the Final Exam
- There is no further make-up if a student misses a scheduled make-up.
- If dates in the schedule below clashes with an event you have planned prior to posting of this syllabus onto my webpage, please inform me in class or via email before DROP/ADD week to afford you a make-up.
- Date for Final examinations for this course is available on Academic Calendar. A deviation to this date, if any, due to unforeseen circumstance, will be notified in class.

### ***Inclement Weather:***

In adverse weather situations, find out the status of school closings by checking the following

weblink:[https://portal2.kennesaw.edu/pls/portal92/APP\\_SNOW.DYN\\_SHOW\\_STATUS.show](https://portal2.kennesaw.edu/pls/portal92/APP_SNOW.DYN_SHOW_STATUS.show)

### ***COURSE GRADING PROCEDURE:***

The final grade for the course will be based on the percentage of points earned out of the total number of points as outlined below. Final letter grades A, B, C...in the course will be assigned according to the point breakdown listed below:

Graded assignments	TOTALS	Final course grades	Percentage (%)
2 Mid-term Exams @ 100 pts	200	<i>A</i>	90-100
Cummulative Final Exam	100	<i>B</i>	80-89
2 Class Activities @ 10 pts. Each*	20	<i>C</i>	70-79
3 Quizzes @ 20 pts. each (lecture)	60	<i>D.</i>	60-69
1 Research paper-Oral **	20	<i>F</i>	<60
Grand Total	400		

**\*not scheduled-random date**

**\*\*Group presentation (include instructor & peer evaluation)**

***Extra credit:***

Extra credit may be offered, at the discretion of the instructor throughout the semester and the points earned will be added directly to the cumulative points scored on the exams. Extra credits are given for active participation in class during the course, and leadership in group activity or any other course related class activities.

***Changes in policies:***

Changes to the course's point distribution, schedule, policies, office hours, or any other component may be made throughout the semester. Changes will be announced in class and posted on the course web site.

**Content \*\***

TOPICS	READING ASSIGNMENTS
<b>Unit 1</b>	
<b>Introduction-</b> General characteristics of fungi and their importance	<b>Role of fungi in the Ecosystem</b>
Fungal life cycles, ecological role of fungi, and human-fungus interactions	
<b>Division or Phylum Myxomycota-</b> The Slime Molds	
Chytridiomycota: The Chytrids	
<i>Quiz 1</i>	<i>Date –TBA-online</i>
Oomycota: Water Molds	
<b>Division or Phylum Zygomycota-</b> The Bread Molds	<b>Air pollution by house molds</b>
<i>Exam 1</i>	<i>TBA</i>
<b>Unit 2</b>	
<b>Division or Phylum Ascomycota–</b> The Sac fungi	
Saccharomycetales & the filamentous Ascomycetes	
Powdery Mildews	<b>Mildew in economically important crops</b>
<i>Quiz 2</i>	<i>Date –TBA--online</i>
Perithecial fungi	
Cup fungi	
Ascstromatic fungi	
<i>Exam 2</i>	<i>TBA</i>
<b>Unit 3</b>	
<b>Division or Phylum Basidiomycota</b>	<b>Edible, Poisonous, and hallucinogenic mushrooms</b>

Agaricales: The Mushrooms Aphylophorales, Bracket fungi Gasteromycetes, Puffballs Urediniomycetes & Ustomycetes, rusts and smuts	<b>Mycotoxins in the grain and other food products</b>
<b>Quiz 3</b>	<b>Dates- TBA-online</b>
<b>Unit 4</b>	
<b>Division or Form Phylum Deuteromycota: The Imperfect Fungi</b>	<b>Allergies and Fungal Diseases of Animals &amp; Humans</b>
<b>Oral Presentation</b>	<b>TBA</b>
<b>Final Exam Review</b>	<b>TBA</b>
<b>Last day of class &amp; Final exam</b>	<b>TBA</b>

### **Plagiarism and Cheating**

The above is in accordance to the University policy concerning plagiarism and cheating as stated in the KSU Student Code of Conduct. Refer to KSU document. All instances of academic misconduct, both intentional and unintentional, will be handled through established procedures of the University Judiciary Program (<http://www.kennesaw.edu/judiciary/procedur.shtml>). Students violating the University's academic honesty code are subject to University-level disciplinary action, which may include suspension or expulsion from the University. For exams, any student observed cheating will receive an automatic zero for the entire exam in addition to any penalties assessed through campus disciplinary procedures.

### **Academic Withdrawal Policy**

Students may withdraw from one or more courses anytime before the last three weeks of the semester. However, as of Fall 2004, students will be allowed a maximum of eight total withdrawals if they enter KSU as a freshman. Transfer students will be allowed one withdrawal per fifteen credit hours attempted, for a maximum of eight. Students who

choose to pursue a second degree at KSU will be allowed two additional withdrawals. Students who entered KSU before the Fall of 2004 will be allowed one withdrawal per fifteen credit hours attempted for a maximum of eight. To withdraw, the student should complete an official withdrawal form in the Office of the Registrar. Students who officially withdraw from courses on or before the last day to withdraw without academic penalty will receive a “W”. Students who officially withdraw after the last day to withdraw without academic penalty (and before the last three weeks of the semester) will receive a “WF”, which will be counted as an “F” in calculation of their grade point average.

The only exceptions to these withdrawal regulations will be for instances involving unusual circumstances, which are fully documented. Students may appeal to the academic standing committee for consideration of unusual circumstances.

Students cannot withdraw from their courses and remain in the program; they must carry at least 3 hours of credit. Program staff will not handle course withdrawals. Students must contact their home institutions (where they are registered) and handle the process themselves. They must provide the Faculty Member and Program Director with evidence that they have dropped the course.

#### **Academic accommodations**

Any student with a documented disability or medical condition needing academic accommodations of class-related activities or schedules must contact the instructor immediately. Written verification from the [KSU disAbleD Student Support Services](#) is required. No requirements exist that accommodations be made prior to completion of this approved University documentation. All discussions will remain confidential.