

**MCB 3020/MCB 6937
BASIC BIOLOGY OF MICROORGANISMS
Spring 2017**

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WK	Date	TOPIC
01.	01-02	Introduction to Microbiology and Microscopy
02.	01-09	Macromolecules and Cellular Chemistry, Cell Biology
03.	01-16	Macromolecules and Cellular Chemistry, Cell Biology (Quiz ONE Due 1-20)
04.	01-23	Microbial Growth and Nutrition, Bacterial Metabolisms

EXAM I Friday January 27, 2017

05.	01-30	Microbial Growth, Nutrition, and Bacterial Metabolisms
06.	02-06	Bacterial Genetics, Regulation of Gene Expression
07.	02-13	Molecular Biology, Genetic Engineering
08.	02-20	Biotechnology, Bioinformatics (Quiz TWO Due 2-17)

EXAM II Friday February 24, 2017

09.	02-27	Microbial Diversity, Virology (Quiz THREE Due 3-17)
10.	03-13	Control of Microbial Growth, Antibiotics and other Antimicrobial Agents
11.	03-20	Immunity, Hypersensitivity, Immunodeficiency

Exam III Friday March 24, 2017

12.	03-27	Epidemiology, Mechanism of Pathogenicity
13.	04-03	Public Health, Clinical, and Diagnostic Microbiology (Quiz FOUR Due 4-10)
14.	04-10	Public Health, Clinical, and Diagnostic Microbiology

Exam IV Monday April 17, 2017

COURSE DESCRIPTION (from catalogue): Structure, nutrition and growth of microorganisms; characterization of representative microorganisms and viruses; metabolic properties and introduction to microbial genetics, immunology and pathogenesis of microorganisms.

COURSE OBJECTIVES: Provide student with a foundation in microbiology and explore current areas of interest.

TEXTBOOK: Prescott's Microbiology by Willey, Sherwood and Woolverton, 10th Edition in the form of E-book from Connect by McGraw Hill Education

(Required). See the ISBN on UF registrar's office website. You need to acquire an access code for Connect from UF bookstore or directly from McGraw Hill. Connect provides access to the E-book which contains the required readings and assignments for exam. Connect provides tutorials, animations, and supplemental information that help students understand the lectures presentations. Connect also provides practice exams. Students may take these exams multiple times. These exams draw questions from a pool of questions drawn for lectures and required reading materials. Most of the tables and figures used in the lectures come from this website and the e-book. E-book also provides materials for the extra credit quizzes offered as bonus points.

WEBSITE: The class is on E-learning (Canvas). The class syllabus, lecture presentations, study guides, practice exams and other materials will be posted on E-Learning throughout the semester. Questions about lecture material should be addressed during Q/A-review sessions, office hours, or via email. Details and clarifications about class policy will be posted online as announcements or emails on a regular basis. Students should check their emails and announcements on Canvas on a regular basis (once a day).

Attendance: Attendance is not required. Lectures are pre-recorded and are posted online on a weekly basis.

EXAMS: Four scheduled exams are given via ProctorU. Students take the exams on Canvas via ProctorU Test Management System using their own computers and location of their choice. Exams are given during the dates stated in the syllabus. You must schedule your exam between 7:00 am EST and 7:00 pm EST during the day of the exam. You need to register with the ProctorU Test Management System and reserve your spots for all four exams in advance. You must complete your registration and reservation by the first week of classes. Exam materials come from **lectures presentations, lecture notes, and assigned textbook readings**. *In some cases information presented in class may be in contradiction with information from other sources, especially internet-posted materials. In these cases exam questions will be based only on the information available in the textbook, lecture notes, or materials presented during the lecture presentations, and exams will be graded accordingly.* Practice exams/answers will be posted on eBook website to familiarize students with. Students should use these exams as real assessments of learning rather than study guide.

EXTRA CREDIT QUIZZES: There are four online take-home quizzes which allow the students to earn extra credit points. You take these quizzes online and you do not need ProctorU to submit these quizzes. See the course

website for more details. Quizzes are on Canvas, but the materials are from the eBook.

GRADING/TESTS: The final class grade is based on accumulated points

There are four (4) regularly scheduled non-cumulative exams. The course is based on 400 points. A written (short answer) makeup exam is available for a missed exam due to an excused absence. Makeup exam contains essay-type and short-answer questions.

Grading scale (Total accumulated points including exams and quizzes):

A	360 – 400	points
A-	356 – 359.9	points
B+	348 – 355.9	points
B	320 – 347.9	points
B-	316 – 319.9	points
C+	308 – 315.9	points
C	280 – 307.9	points
C-	275 – 279.9	points
D	240 – 274.9	points
E	000 – 239.9	points

ACADEMIC HONESTY: As a result of completing the registration form at the University of Florida, I assume that every student has signed the following statement: "I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University."

STUDENTS WITH DISABILITIES: Students requesting classroom accommodations should register with the Dean of Students Office. The office will provide documentation to the student, who can then bring the necessary material to the instructor when requesting accommodation. Students who take exams at the DRC must present documentation about their accommodations and register with DRC during the first two weeks of classes.

UNIVERSITY SUPPORT SERVICES: Resources are available on campus for students having personal problems or lacking clear career and academic goals that interfere with their academic performance. These resources include:

- University Counseling Center, 301 Peabody Hall, 392-1575, personal and career counseling.
- Student Mental Health, Student Health Care Center, 392-1171, personal counseling.
- Sexual Assault Recovery Services, 392-1161.
- Student Health Care Center, 392-1161.

- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.
- I am always available and my office door is open if you need to talk to me

Useful Links:

- Center for Disease Control and Prevention: CDC: <http://www.CDC.gov>
- US Food and Drug Administration: FDA: <http://www.FDA.gov>
- US Environmental Protection Agency: EPA <http://www.EPA.gov>
- Microbiology and Cell Science: MCS: <http://microcell.ufl.edu>
- College of Agriculture and Life Sciences: CALS: <http://www.ifas.ufl.edu>
- University of Florida Libraries: UF Libraries: <http://www.uflib.ufl.edu>
- University of Florida: UF: <http://www.ufl.edu>