

Microbiology METX 119

Summer 2015 Session 1: June 22- July 24

MWF 9:00 AM - 11:30 AM Physical Sciences 130

Instructor: Susan Williams, Ph.D.

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Lab Phone: 831 459 4780

Office: Biomed 260 Monday 12:30- 2:00, Tuesday 12:30-1:30 PM

TA: Baldandorj Baatar email: bbaatar@ucsc.edu Discussion: 1 hour in the afternoon once a week on Monday or Wednesday

Course Content

Microbiology introduces the major groups of microorganisms, and emphasizes the cell structure, metabolism and molecular biology of Bacteria, Achaea, and their viruses. Research tools and methods used to study microbiology will be detailed. The course includes the impact of microorganisms on medicine, public health and their practical applications in agriculture and biotechnology.

Recommended Textbook

Brock Biology of Microorganisms Madigan, Martinko, Stahl, and Clark, 13th ed. Benjamin Cummings Publishers (Pearson)

Grading:

Individual Topic Answers	10%
Midterm 1	30%
Midterm 2	30%
Final Exam	30%

All exam scores curved to a class average of 75%. Final grades assigned on a straight percentage 100-90% A, 89-80% B, 79-70 C, 69-60% D, 59% below F

Preliminary Schedule:

Date	Topic	Chapter sections (13th ed.)
June 22	Microbial Diversity	1.1-5, 2.5-12, 3.1-2
June 24	Microbial Growth	4.1-4.12, 5, Topic1 given
June 26	Gene Regulation 1	6.5-15, 6.21, 7.1-4
June 29	Gene Regulation 2	8.1-5, 9.9-11, Topic1 due
July 1	Exam - 1st hour then	Prokaryotic Genetics, start 10.4-11
July 3	Prokaryotic Genetics	12.3, 12.10-13
July 6	Human Disease	25.1-8, 27, 32.1-8, 33.1-12, Topic 2 given
July 8	Reservoirs	34, 35.4-8
July 10	Immune Defenses	28, 29.1-5, 30.3-10 Topic 2 due
July 13	Antimicrobial Agents	26.1-12, 31.1-5
July 15	Exam 2- 1st hour then	Metabolic Diversity, start 13.1-9, 14.1-2,
July 17	Metabolic Diversity	15.1-5, 16.1-5, 16.8, 16.12, 17, 18, 21.1-3
July 20	Nutrient Cycles	20.1-6, 23.1-5
July 22	Nutrient Cycles	24.1-5, 25.12, 35.1-3
July 24	Exam 3	

Final Exam Alternative arrangements for the final exam will be granted only in exceptional circumstances at the discretion of the instructor and require an alternative exam format.

Students with Disabilities "If you qualify for classroom accommodations because of a disability, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me as soon as possible, preferably within the first week of the term. Contact DRC by phone at 831-459-2089 or by email at drc@ucsc.edu for more information."

Late Assignments

Items turned in late will receive an automatic 30% deduction in point value.

Nothing will be accepted more than two days late.

Policy on Academic Misconduct

Academic misconduct will result in a grade of zero for the particular assignment, may be reported to the student's college provost, receive a failing grade, and be excluded from the course. Academic standards are specified in the *Student Policies and Regulations Handbook* Section 102.01. This includes but is not limited to fabrication, plagiarism or facilitating academic dishonesty (helping a friend or lab partner). All written work bearing your name must be generated exclusively by you, in your own words. Ideas and information not your own should be appropriately cited both for written and oral assignments. Any direct quotes, images, or paraphrased material should be identified, enclosed in quotation marks, and correctly cited. Ideas and material from your textbook should receive the same careful treatment. No written assignment should include more than a few quoted or paraphrased sentences. If you are concerned about what constitutes an inappropriate level of collaboration please see the instructor before the assignment is submitted.