9-2014

BIOM 360.01: General Microbiology

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General Microbiology (Biom 360)
Autumn Semester, 2014

Meeting time: 1:10-2:00 MWF
Meeting place: HS207

Instructor: Dr. Michael F. Minnick
Office hours: *Open-door policy- drop in whenever you like*
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Text: *Brock Biology of Microorganisms*, 14th ed. Madigan et al., 2014 [*eligible for book buyback*]

Performance- *450 points are possible* in the course from three 100-point exams, and a 150-point final (100 points comprehensive + 50 points from the last few lectures). The final exam covers material included in previous exams. Make-up exams are available only for excused and documented absences. Performance will be evaluated by a classical grading system of: A (90-100%); B (80-89%); C (70-79%); D (60-69%); F (<60%).

Preparation- Reading assigned material in advance and attending class is highly recommended, as notes are the main source of test questions. **College Chemistry (CHEM161N-162N) is a prerequisite for this course. Cell and Molecular Biology (BIOL221) and Organic Chemistry (CHEM221) are prerequisites or co-requisites.** *If you have not taken these courses you must get the instructor's approval.*

Accommodations to ensure accessibility of students with disabilities will be gladly made, but to qualify you must be registered with Disability Services for Students (DSS). Arrangements for *accommodations on exams must be made in advance by the student.*

Academic misconduct will be reported and handled as described in UM's Student Conduct Code. *All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at:* http://www.umt.edu/vpsa/policies/student_conduct.php

Dropping course or changing the grading status will strictly follow UM policies and procedures, which are described in the catalog. Students should note that they cannot change to an audit after the 15th day of instruction. In addition, dropping the course or changing the grading status (to CR/NCR) are not automatically approved after the 30th day of the semester; these may be requested by petition, but the petition must be accompanied by documentation of extenuating circumstances. Requests to drop the course or change the grading status to benefit a student's grade point average will not be approved.

Cell phones and similar devices must be turned ***off*** during class. Disruption of class by ringing cell phones may result in the loss of points.

COURSE SCHEDULE- (tentative, flexible and highly optimistic):

Date	Chapt.	Topic
M Aug 25	1	Microorganisms and Microbiology
W Aug 27	1	Microorganisms and Microbiology
F Aug 29	2	Microbial Cell Structure and Function
M Sep 01	-	**HOLIDAY**
W Sep 03	2	Microbial Cell Structure and Function
F Sep 05	3	Microbial Metabolism
M Sep 08	3	Microbial Metabolism
W Sep 10	4	Molecular Microbiology
F Sep 12	4	Molecular Microbiology
M Sep 15	5	Microbial Growth and Control
W Sep 17	5	Microbial Growth and Control
F Sep 19	6	Microbial Genomics
M Sep 22	-	**EXAM 1**
W Sep 24	6	Microbial Genomics
F Sep 26	7	Metabolic Regulation
M Sep 29	7	Metabolic Regulation
W Oct 01	8, 9	Virology
F Oct 03	8, 9	Virology
M Oct 06	10	Genetics of Bacteria and Archaea
W Oct 08	10	Genetics of Bacteria and Archaea
F Oct 10	12	Microbial Evolution and Systematics
M Oct 13	12	Microbial Evolution and Systematics
W Oct 15	14, 15	Diversity of Bacteria
F Oct 17	14, 15	Diversity of Bacteria
M Oct 20	-	**EXAM 2**
W Oct 22	14, 15	Diversity of Bacteria
F Oct 24	14, 15	Diversity of Bacteria
M Oct 27	16	Diversity of Archaea
W Oct 29	16	Diversity of Archaea
F Oct 31	17	Diversity of Eukaryotic Microbes
M Nov 03	17	Diversity of Eukaryotic Microbes
W Nov 05	19, 20	Microbial ecosystems/nutrient cycling
F Nov 07	19, 20	Microbial ecosystems/nutrient cycling
M Nov 10	23	Microbial Interactions with Humans
W Nov 12	23	Microbial Interactions with Humans
F Nov 14	24-26	Immunology

M Nov 17	-	**EXAM 3**
W Nov 19	24-26	Immunology
F Nov 21	29	Person-to-Person Bacterial and Viral Diseases
M Nov 24	30	Vector- and Soil-Borne Bacterial and Viral Diseases
W Nov 26	-	**HOLIDAY**
F Nov 28	-	**HOLIDAY**
M Dec 01	31	Water and Food-Borne bacterial diseases
W Dec 03	32	Fungal and Parasitic Diseases
F Dec 05	-	Catchup, evaluations
T Dec 09	-	**FINAL EXAM, 1:10-3:10**