2013 Tentative Syllabus for Microbiology: Bio 4030

Bowman-Oddy Laboratories 1045 MWF 1:00-1:50

Instructor: Scott Leisner Wolfe Hall 1201
Telephone 530-1549 (Office)
530-1550 (Lab)

Prerequisites: Biology 3030 or Consent of Instructor

Textbook: *Microbiology* , *an Introduction*, *Eleventh Edition* by Gerard Tortora, Berdell Funke, and Christine Case, Pearson-Benjamin Cummings Publishers, 2013. (ISBN: 978-0-321-73360-3)

Office Hrs.: TBA

Course Description: An introduction into the basic concepts of microbiology.

Topics covered will include microbial cell structure and function microbial biochemistry and genetics, and disease.

Grading:

Grading for this course will be based on homework and 4 examinations.

The *homework* will be take-home assignments to be given without prior notice and will constitute 10% (100 points) of the final grade.

There will be *4 in-class examinations* each worth 15% (150 points) of the final grade and a final examination worth 30% (300 points) of the final grade.

The Department of Biological Sciences and the University of Toledo have specific policies regarding academic dishonesty. The University Policies can be found in the University catalog under general policies.

Examinations are to be taken on the scheduled day at the scheduled time with no exceptions unless with a verifiable excuse. 50 min and no more will be given to complete the in class exams, and final will be for 2 hours. The in class exams will cover material following the previous exam to that exam and the final will be comprehensive. If you think that your examination has been graded unfairly, you have one week following its return to bring this to the instructor's attention, otherwise your grade will stand as is.

Microbiology: Bio 4030

Tentative List of topics:

		Book Chapter
Jan. 7	History of Microbiology	1
Jan. 9	Basic Techniques of Microbiology	3
Jan. 11	Basic Techniques of Microbiology	3
Jan. 14	Basic Types of Microorganisms	10, 12
Jan. 16	Non-Bacterial Microorganisms	12
Jan. 18	Non-Bacterial Microorganisms, Cont.	12
Jan. 21	**Holiday**	
Jan. 23	Non-Bacterial Microorganisms, Cont.	12
Jan. 25	**Exam I**	
Jan. 28	Bacterial Cell Structure and Function	4
Jan. 30	Bacterial Cell Structure and Function, Cont.	4
Feb. 1	Bacterial Cell Structure and Function, Cont.	4
Feb. 4	Bacterial Cell Structure and Function, Cont.	4
Feb. 6	Bacterial Cell Structure and Function, Cont.	4
Feb. 8	Bacterial Diversity	11
Feb. 11	Bacterial Diversity	11
Feb. 13	Bacterial Diversity, Cont.	11
Feb. 15	**Exam II**	
Feb. 18	Bacterial Metabolism	5
Feb. 20	Bacterial Metabolism, Cont.	5
Feb. 22	Bacterial Metabolism, Cont.	5
Feb. 25	Microbial Genetics	8
Feb. 27	Microbial Genetics, Cont.	8
Mar. 1	Microbial Genetics, Cont.	8
Mar. 4-8	**Spring Break**	
Mar. 11	Microbial Genetics, Cont.	8
Mar. 13	Microbial Genetics, Cont.	8
Mar. 15	**Exam III**	
Mar. 18	Bacterial Replication and Growth	6, 7
Mar. 20	Bacterial Replication and Growth, Cont.	6, 7
Mar. 22	Bacterial Replication and Growth, Cont.	6, 7, 20

Mar. 25	Bacterial Replication and Growth, Cont.	20
Mar. 27	Virology: Structure, Function, Replication, Genetics	13
Mar. 29	Virology, Cont.	13
Apr. 1	Virology, Cont.	13
Apr. 3	Virology, Cont.	13
Apr. 5	**Exam IV**	
Apr. 8	Microbes and Disease, Cont.	14-17
Apr. 10	Microbes and Disease, Cont.	14-17
Apr. 12	Microbes and Disease, Cont.	14-17
Apr. 15	Microbes and Disease, Cont.	21-26
Apr. 17	Microbes and Disease, Cont.	21-26
Apr. 19	Microbes and Disease, Cont.	21-26
Apr. 22	Microbes and Disease, Cont.	21-26
Apr. 24	Biowarfare	
Apr. 26	Microbial Ecology	27

Final Exam: May 1 (12:30-2:30)

Approximate Grading Scale:

A :	100-90	C+:	75-73
A-:	89-86	C:	72-62
		C-:	61-60
B+:	85-84	D+:	59-57
B:	83-78	D:	56-52
B-:	77-76	D-:	51-50
		F:	<50