

Prerequisites: You MUST have BIOL 3405 or upper division equivalent from a 4-year institution. If you have not completed the required prerequisite you will be dropped from the course.

Required materials:

- (1) Sherris Medical Microbiology ISBN 9780071818216, recommended, older editions are acceptable
- (2) Medical Microbiology Laboratory Manual (available at bookstore or on blackboard as pdf)
- (3) Lab coat (available for a \$11 deposit, \$1 will be kept for washing fees, BRING CASH to first lab)
- (4) Blue or black sharpie permanent marker

Course Information: There will be three lectures per week, **Monday lectures will be online only**. All powerpoint presentations will be made available on Blackboard **after lecture**. Scantron™ answer sheet will be provided by the instructor but you must bring a #2 pencil for all exams.

Grading: Blackboard will provide an **ESTIMATE** of your scores as the class progresses, final grades will be determined based on my grade sheet, not blackboard. Grades will be determined based off a standard grading scale, **no curve**. Your grade is composed of 50% Lecture and 50% Lab.

LECTURE 50%

Exams (3)	100 pts	200
Final exam (1)	150 pts	150
Quizzes (2)	20 pts	40
Good Citizen (1)	10 pts	10
Extra credit (5)	10 pts	

Total: 400

LAB 50%

Lab practical (2)	100 pts	200
Unknown (1)	60 pts	60
Flow charts (10)	10 pts	100
Skills test (4)	10 pts	40
Extra credit	20 pts	

Total: 400

Good Citizen: Students will be awarded 10 pts for good citizenship in lecture and in lab *unless* they are disruptive or disrespectful (cell phone use, texting, arriving excessively late, talking in class, etc).

Quizzes: Will be short answer and will cover material in the previous 3 lectures. Make-up quizzes will not be provided, no exceptions.

Exams: Will consist of 50 multiple-choice (50 pts) and short answer/fill-in (50 pts) questions, exam will cover all **new** material since the previous exam.

Extra credit: A **maximum** of 30 points extra credit is available in the class. There will be one 300 word essay on current event topic that will be announced in lecture (10 pts), plus additional in class 1-2 pt opportunities in lecture. In lab, any group that correctly determines the species they have been provided will receive 2 pts.

Lab practical: You will have 3 min at 25 stations testing your knowledge of the various techniques, medias, and tests we have performed in lab. The practicals will be 2/3 multiple choice and 1/3 short answer and are not cumulative. Flow charts will be allowed during the lab practical. All flow charts must be turned in to me for approval the Monday prior to the practical and will be returned to students the day of the practical.

Skills tests: Will be unannounced and will test commonly used techniques covered in previous labs such as streaking for isolate colonies, gram stain, nitrate test, microscope use, and pipet use.

Unknown: Identify the TWO bacterial species in an unknown sample you are given using the various tests and procedures that you have been taught in lab. Unknowns are done individually, are open book/notes, but no computer/cell phones or talking is allowed.

Flow charts: When we finish with each genus of bacteria, students will construct a flow chart for identifying the different species of bacteria within that genus. You will be allowed to use these flow charts on the lab practicals.

CLASS RULES: Audio recording of lectures is allowed and video of lectures will available via East Bay Replay or on youtube. Make-up exams are given only in unusual circumstances, with documentation, and at the discretion of the instructor.

LABORATORY RULES: Lab attendance is **MANDATORY**. More than 2 absences will result in an automatic failure of the course. Please arrive on time and stay for the entire lab session, or until excused by the instructor. If you are more than 15 minutes late you will be marked as absent. Safety/clean-up are critical lab components and any infractions will be deducted from your good citizenship score.

			Lecture	Lab	charts due
WEEK 1	M				
	W	1	Introduction & Immunity	Introduction & basic skills test	
	F	2	Staphylococcus	Lab 1a Staph	
WEEK 2	M	3	Streptococcus		
	W	4	Enterococcus, QUIZ #1	Lab 1b Staph, Lab 2a Strep	
	F	5	Bacillus	Lab 1c Staph, Lab 2b Strep	
WEEK 3	M	Martin Luther King Holiday			
	W	6	Listeria/Erysipelothrix	Lab 3a Bacillus, flow chart	1
	F	7	Coryne & Myco	Lab 3b Bacillus, Lab 4a Coryne	2
WEEK 4	M		EXAM 1		
	W	8	Enterobacteriaceae I	Lab 3c Bacillus, Lab 4b Coryne	
	F	9	Enterobacteriaceae II	Lab 4c Coryne, Lab 5a Myco	3
WEEK 5	M		Enterobacteriaceae II		
	W	10	Vibrio, Plesio, Aero (QUIZ #2)	Lab 5b Myco, Review	4, 5
	F	11	NO LECTURE	PRACTICAL 1	
WEEK 6	M	12	Campy & Heliobacter		
	W	13	Pseudomonas	Lab 6a Entero	
	F	14	Neisseria	Lab 6b Entero, Lab 7a Vibrio	
WEEK 7	M		EXAM 2		
	W	15	Haemophilus	Lab 6c, Lab 7b Vibrio, Lab 8a nonferm	
	F	16	Legionella & Bordetella	Lab 7c Vibrio, Lab 8b non-ferm	6
WEEK 8	M	17	Brucella & Francis		
	W	18	Clostridium, QUIZ #3	Lab 8c non ferm, Lab 9a Neis	7
	F	19	Anerobic	Lab 9b Neis, Unknown day 1	8
WEEK 9	M	20	Anaerobic		
	W	21	Treponema	Unknown day 2 , Lab 10a Clost	9
	F	22	Mycoplasma	Unknown day 3 , Lab 10b Clost, Lab 11a Haem	
WEEK 10	M	23	Chlamydia		
	W	24	student's choice	Lab 11b Haem, Demos, Review	10
	F		NO LECTURE	PRACTICAL 2	
	M		FINAL 12-1:50		