STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Clinical Microbiology
Course Number: MLT223

Required Materials

Textbook(s):

Delost, M. D. (2021). *Introduction to diagnostic microbiology for the laboratory sciences* (2nd ed.). Jones & Bartlett Learning.

Required Readings:

See weekly calendar below.

Additional Materials:

Personal Protective equipment: nonlatex gloves, disposable fluid resistant lab coat, black markers, scientific calculator and note taking supplies

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Lecture Topic/Assigned Reading	Lab Activity	Assessment/ Assignments
1	Chapter 1: Introduction to Clinical Microbiology Chapter 2: Safety Chapter 3: Host and Microorganism Interactions Chapter 4: Specimen collection, transport, and processing: preliminary identification methods Chapter 5: Staining Chapter 6: Culture and Identification Methods	Week 1 lab Introduction to Microbiology lab, gram staining, streaking for isolation, and colony morphology.	*Med training gram stain is due Assignments to work on during the semester: 1. Microbiology Weekly Case Studies Due each week starting 2. Hospital (report) Microbiology case studies due 3. Completed Bug Book due 4. Mercy Medial Gram Stains and Question worksheet due
2	Chapter 9: Staphylococci and other catalase positive cocci Chapter 22: Wound cultures	Identification of Staphylococcus species	Test #1 over week one (Chapter 1-6)

		Gram Stain Case study packet	
3	Chapter 10: Streptococci and Enterococci Chapter 22: Throat cultures	Identification of Streptococci and Enterococci	
4	Chapter 12: Enterobacteriaceae Chapter 22: Urine cultures	Identification of Enterobacteriaceae	Test #2 over Staphylococci, Streptococci and Enterococci
5	Chapter 13: Non-Fermenters and Misc. Gram-negative rods Chapter 22: CSF cultures	Identification of Non-Fermenters and Misc. Gram-negative rods	
6	Chapter 14: Helicobacter, Campylobacter, and other misc. bacteria Chapter 19: Mycobacteria Chapter 22: Stool cultures	Identification of Helicobacter, Campylobacter, and Mycobacteria	Test #3 over Enterobacteriaceae, Non-Fermenters and Misc. Gram-negative rods and Vibios
7	Chapter 15: Haemophilus, Misc. Fastidious neg rods Chapter 22: Lower Respiratory cultures	Identification of Haemophilus, Misc. Fastidious neg rods	
8	Chapter 11: Neisseria and Moraxella Chapter 16: Gram positive rods Chapter 22: Genital cultures	Identification of Neisseria, Moraxella and gram-positive rods	Test #4 Helicobacter, Campylobacter, and Mycobacteria Haemophilus, Misc. Fastidious neg rods *Med training vaginal wet prep due Please print off quiz grade and submit for a grade
9	Chapter 8: Antibiotics and Susceptibility testing	Susceptibility testing	
10	Chapter 18: Anaerobes Chapter 6: Automation Chapter 24: Blood cultures	Identification of anaerobes Review for practical	Test #5 Neisseria and Moraxella and Antibiotics Gram positive rods
11	Chapter 17: Spirochetes Chapter 20: Mycoplasma, Chlamydia and Rickettsiae Chapter 23: Viruses	Identification of Spirochetes, Mycoplasma, Chlamydia, Rickettsiae and Viruses	Bacteriology Laboratory Practical *Med Training Introduction to Molecular Diagnostics Due
12	Chapter 21: Introduction to Mycology	Identification of Fungi MiniOne PCR Lab	Test #6 Spirochetes, Mycoplasma, Chlamydia and Rickettsiae, Viruses and mycology *Med training skin KOH due Please print off quiz grade and submit for a grade

13	Introduction to parasitology Amoebas Chapter 22	Parasitology	*Med training pin worm examination due Please print off quiz grade and submit for a grade
14	Roundworms, tapeworms, and flukes Chapter 22	Parasitology PCR LAB	Med- training: Introduction to Molecular Diagnostics due
15	Blood and tissue parasites, and malaria Chapter 22	Parasitology PCR LAB	Parasitology quiz on Blackboard due Parasitology fun practical
16	Comprehensive final exam	Review	