

MED 216: Medical Microbiology II

This course is a continuation of MED 206. The micro-organisms studied are those which require specialized techniques in both collection and identification. These pathogens include those organisms belonging to the following groups: anaerobic bacteria, mycobacteria, fungi and parasites. Many of the diseases caused by these organisms produce chronic infections that have plagued humanity. Society and traditional social behaviors are explored as they relate to health and disease progression across the globe. Prerequisite: MED 206 with a grade of C or better. This course includes 45 hours of lecture and 45 hours of teaching laboratory at the College. Instructional Support Fee applies. Gen. Ed. Competencies Met: Global and Historic Awareness.

Course Student Learning Outcomes

1. Name the anaerobic bacteria, fungal organisms, mycobacteria and parasites commonly involved in human infections.
2. Describe the infections caused by these organisms and the methods used to prevent and treat the infections.
3. Identify world and historical issues caused by these organisms.
4. Describe the fundamentals of specimen collection including distinguishing between acceptable and unacceptable specimens, transportation, storage and processing.
5. Culture the organisms listed accounting for atmosphere, pH, temperature and nutritional requirements.
6. Examine specimen growth using stain techniques, biochemical testing and serology for identification.
7. Identify organisms based on case study information, microscopic and macroscopic appearance and biochemical characteristics.
8. Demonstrate the ability to recognize technical problems and suggest possible corrective actions.
9. Apply the principles of Quality Control Procedures.

1

1. Follow appropriate safety precautions while working in the laboratory.

1

1. Work cooperatively with fellow students, instructors and college staff.

Credits: 4

Program: Medical Laboratory Technology