



MED 205: Immunology - Serology

The course introduces theoretical principles of immunology which involve the structure, function and interactions of the immune system. The serological techniques useful in the diagnosis of many diseases will be reviewed and performed at the College. Prerequisite: CHM 116, BIO 239, MED 102 and MTH 119 all with a grade of C or better. This course includes 45 hours of lecture and 30 hours of laboratory. Instructional Support Fee applies. Gen. Ed. Competencies Met: Critical Thinking and Scientific Reasoning and Discovery.

Course Student Learning Outcomes

1. Perform, interpret and analyze routine immunology testing including; phagocytosis, slide agglutination testing and Enzyme Linked Immunoassay (ELISA) testing.
2. List procedure, principle and normal values for specified laboratory tests.
3. Recognize abnormal results and describe corrective action.
4. Discuss clinical significance of immunology testing and its relation to disorders of the body including immune disorders, microbial infections, viruses and parasites.
5. Discuss professionalism and the appropriate ethical conduct required to work in a clinical setting and in the delivery of health care to the diverse ethnic population in the service area.
6. Communicate appropriately using proper medical and laboratory terminology.
7. Discuss and utilize standard safety practices as outlined by OSHA and CDC.
8. Apply concepts of instrumentation to immunology analysis.
9. Maintain patient confidentiality.

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1. Discuss and interpret quality control and quality assurance applications necessary to ensure reliability of test results and equipment.

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1. Prepare materials and supplies for laboratory testing.

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1. Describe collection, appropriateness and preparation of specimens for testing.

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1. Follow the program safety policies in the CLS laboratory.

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1. Describe collection, appropriateness and preparation of specimens for testing.

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

Credits: 4

Program: Medical Laboratory Technology