

Montgomery County Community College
BIO 241
Clinical Microbiology II
4-3-3

COURSE DESCRIPTION:

A course that introduces Immunology, Virology, Mycology, and Parasitology as well as the immunological basis of serological tests and their uses in the diagnosis of infectious and non-infectious diseases. For students of Medical Laboratory Technology. (Laboratory/lecture format) This course is subject to a course fee. Refer to <http://mc3.edu/adm-fin-aid/paying/tuition/course-fees> for current rates.

REQUISITE

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
3. Describe the basic processes involved in immunoreactions (20%)		

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8. Describe characteristics and basic laboratory techniques for the identification of spirochetes and defective bacteria.	Lecture Laboratory Group Discussions	

- XIV. Medical Parasitology
 - A. Characteristics of Parasitic Infections
 - B. Protozoal Infections and Normal Flora
 - 1. Intestinal: Giardiasis, Amoebic dysentery, Cryptosporidiosis
 - 2. Tissue: Malaria, Toxoplasmosis
 - C. Helminthic Infections
 - 1. Intestinal: Pinworm, Ascaris, Hookworm, Tapeworm
 - 2. Tissue: Trichinosis, Flukes
 - D. Laboratory Diagnosis of Infections Caused By Parasites
- XV. Spirochetes and Defective Bacteria
 - A. *Treponema* and *Borrelia*
 - B. *Mycoplasma*
 - C. *Chlamydia* and *Rickettsia*

LEARNING MATERIALS:

The textbooks for the course are often changed in order to best meet the needs of students. Currently they are:

Forbes, Sahm, and Weissfield. (2007). *Diagnostic Microbiology* (12th ed.). C.V. Mosby Co.

Tortora, Funke, and Case. (2013). *Microbiology: An Introduction* (11th ed.). Pearson Benjamin Cummings Co.

A laboratory manual, outlines, course objectives, supplemental readings, and handouts are provided by the instructor.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Prepared by: Judy Earl, MS, MT(ASCP)	Date: 4/10/1998
Revised by: Elaine Venuti, MS, MT(ASCP)	Date: 10/2008
Revised by: Elaine Venuti, MS, MT(ASCP)	Date: 1/31/2009
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.	Date: 9/11/2009

Revised by: Elaine Venuti, MS, MT(ASCP)	Date: 11/28/2012
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: