

Free Download Syllabus 2014 Trinity Western University

TRINITY WESTERN UNIVERSITY
BIOL333 INTRODUCTION TO MEDICAL MICROBIOLOGY (3 SEM. HRS.)
SUMMER 2014

Instructor:	Anthony Niams	Lectures:	MTWR 8:30-11:30
Office:	NEU 105B	Lab:	MTWR 13:00-16:00 NEU 114
Office Hours:	F 10:00 AM -2:00 PM		

PREREQUISITES: BIOL 113/114 or BIOL 241/242

COURSE DESCRIPTION
A study of pathogenic microorganisms and the control of infectious diseases. Topics include (i) the biology of bacteria, viruses, fungi, protozoa, and helminths; (ii) infectious diseases of temperate and tropical climates; (iii) immunity, immunology, and immunization; (iv) sterilization, disinfection, chemotherapeutic agents; and (v) epidemiology and public health microbiology.

COURSE OBJECTIVES
The course consists of lectures and laboratories. The laboratory component focuses on the biology of the medically-important microorganisms and clinical (diagnostic) microbiology using traditional cultivation methods, serology (ELISA,) and molecular biology.

Students will:

1. Develop an understanding of the major subject areas within medical microbiology
2. Develop a vocabulary of microbiology terms and concepts with accuracy in their expression.
3. Know the major infectious diseases of temperate and tropical climates.
4. Know how to approach the study of infectious diseases in individuals and populations, know the signs and symptoms of major infectious diseases, the biology of causative agents, and methods of prevention and treatment.
5. Understand major challenges in contemporary medical microbiology including emergence of new infectious diseases, development of antibiotic resistance, and bioterrorism.
6. Get a hands-on approach to laboratory medical microbiology techniques for the safe handling, isolation, observation, identification, and disposal of pathogenic microorganisms.

REQUIRED TEXTBOOKS

1. *Microbiology: An Introduction, 11th Edition*, 2013. Tortora, G. J., Funke, B. R., and Case, C. R. THE BENJAMINCUMMINS PUBLISHING COMPANY. (The 10th Edition is still good)
2. *Introduction to Laboratory Microbiology: Theory, Techniques, & Experiments*, 2011. TRINITY WESTERN UNIVERSITY.

RECOMMENDED:

1. *Study Guide: Microbiology: An Introduction, 11th Edition*, 2013. Funke, B. R. THE BENJAMINCUMMINS PUBLISHING COMPANY. (10th Edition is still good)

COURSE MATERIAL

Lecture outlines will be posted on MyCourses prior to each lecture. Follow the links under MyBIOL333 Notes. Outlines can be printed and brought to class and should be viewed as a starting point for the day's material. Students are responsible for material presented orally in class and for other in-class activities. The text book gives a more complete coverage of each topic. Note that we will be covering a lot of material each day (at least three chapters per day). Read the chapters before coming to class. We will work on some of the questions at the end of each chapter in class; come prepared. The study guide will be especially useful!

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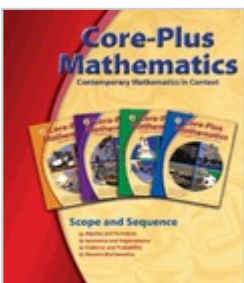
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