

Virginia Western Community College

SUR 135

Infection Control

Prerequisites

BIO 141/142, ITE 102, ENG 111, SDV 101, HLT 143

VCCS Course Description

Introduces the fundamentals of surgical microbiology. Includes an introduction to cell structure and theory, microbial function, human pathogen relationships, infectious process, blood borne and airborne pathogens, defense microorganisms, infection control, and microbial control and destruction

Semester Credits: 2

Lecture Hours: 2

Required Materials

Textbook

- ☐ Microbiology for Surgical Technologist. Margaret H. Manning Rodriguez, 3rd edition, Elsevier, ISBN: 978-0-357-62615-3
- ☐ Surgical Technology for the Surgical Technologist: A Positive Care Approach Cengage, ISBN: 978-0-357-62573-6
- ☐ Study Guide to Accompany Surgical Technology for the Surgical Technologist Workbook, ISBN: 978-0-357-62575-0

VWCC AND DISCIPLINE SPECIFIC OUTCOMES

- Identify various microbes and the method of destruction for those microbes
- Relate the study of microbiology and the process of infection to surgical practice. Describe and discuss the phases of infection as they relate to bacteria while able to describe types of disease-causing microbes.
- Demonstrate knowledge of blood borne pathogens and air borne pathogens
- Demonstrate knowledge of self-protection with protective wear

VCCS TOPICAL DESCRIPTIONS

- Infection control & Patient Care
- Overview of Microbiology
- Identification and Classification of Bacteria

- Basic facts of Microorganisms
- Transmission of Microorganisms
- The Chain of Infection
- Non-bacteria organisms
- History of Infection Control
- Control and Destruction of Microorganisms

VWCC AND DISCIPLINE SPECIFIC TOPICAL DESCRIPTIONS

- Ch 1: Introduction to Microbiology
- Ch 2: The Science of Microbiology
- Ch 3: The Microbiology Laboratory
- Ch 4: The Prokaryotes
- Ch 5: the Eukaryotes
- Ch 6: Microbial Viability and Growth
- Ch 7: Microbial Genetics and Mutations
- Ch 8: The Empire of Viruses
- Ch 9: Microbial Disease Transmission
- Ch 10: Parasites and Vectors
- Ch 11: Mycology
- Ch 12: Gran- Positive Cocci
- Ch 13: Gram- Positive Bacilli
- Ch 14: Actinobacteria
- Ch 15: Gram- Negative Cocci and Spirochetes
- Ch 16: Gram- Negative Bacilli and Coccobacilli
- Ch 17: Diseases of Circulatory and Central Nervous Systems
- Ch 18: Diseases of the Skin and Internal Tissues
- Ch 19: Diseases of the Gastrointestinal and Genitourinary Systems
- Ch 20: Diseases of the Eyes, Ears, and Respiratory System
- Ch 21: Control of Microbial Growth
- Ch 22: Emerging, Recurring, and Reappearing Diseases

[TITLE IX STATEMENT](#)

[ADA STATEMENT](#)

