

SYLLABUS BIOL 2900 - A

Fall, 2015

Course: Microbiology in Health and Disease

Instructor: Prafull C. Shah

Office Hours: Before or after classes, or by appointment by Email to pcshah@valdosta.edu.

COURSE OBJECTIVES:

With a focus on healthcare majors, the objectives of this course are:

- (a) To introduce students to microbiology and the vital role microorganisms play in the well-being of higher forms of life as well as in causing diseases, mostly as opportunists,
- (b) To learn various groups of microorganisms and what makes them infectious,
- (c) To learn most common infections caused by microorganisms, and
- (d) To learn the preventive and curative measures against common infections.

SPECIAL NOTES TO STUDENTS:

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Important Dates For Fall Semester - 2015

Registration

First Class

Week 5

Infectious Disease Process – How Microbes survive host defenses and cause infection

Importance of Gram Stain

Gram Stain of bacteria

Organism mutation, virulence, drug resistance,

Week 10

Clinically significant aerobic Enteric Gram Negative bacteria –
Escherichia, Salmonella, Shigella
Differentiation of Gram Negative Bacilli in a laboratory

Introduction to Enterobacteriaceae, and their
impact on humans

Week 11

Clinically significant aerobic Non-Enteric Gram Negative bacteria –
Pseudomonas, Acinetobacter, Haemophilus
Antimicrobial Susceptibility testing –

