INSTITUTIONAL COURSE SYLLABUS

Course Title: Microbiology - LAB

Course Abbreviation and Number: BIO 2532

Credit Hours: 1 credit hour. Course Type: Lab

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Course Description: Students will become skilled in appropriate techniques for handling bacterial cultures, identifying specimens and implementing and evaluating various standard diagnostic procedures.

Prerequisite: ENG 1510 and BIO 1570 or BIO 2510.

General Education Requirements Met	
SUNY JCC	
Natural Sciences Scientific	Reasoning
Student Learning Outcomes:	
Students who demonstrate understanding can:	
 Demonstrate an understanding of the methods scientist observation, hypotheses development, measurement ar evidence, and employment of data analysis or mathem 	nd data collection, experimentation, evaluation of atical modeling. [SUNY Gen Ed – Natural Sciences]
2. Application of scientific data, concepts, and models in Sciences]	one of the natural sciences. [SUNY Gen Ed – Natural
Topics Covered:	
 Introduction; Lab Safety; 	Parsitology
 Microscopy Microscopy with Oil Immersion; Means of Motility; Aseptic Techniques 	 Environmental Effects- Oxygen and UV Light Physical and Chemical Control (Handwashing, Disinfectants,
 Cultivation of Microorganisms Staining Techniques (Simple and Differential) 	antiseptics)Control of Microbial Growth (Antibiotics; Phagetyping)
 Enumeration of Microorganisms Bacteriological Examination of Water and Foods 	 Metabolic Activities of Microorganisms and Identification of an Unknown Microbe
Environmental Influences & Control of Microbial Growth	Medical Microbiology/SerologyLab Exam and Clean-up
Information for Students	
• Expectations of Students	
 <u>Civility Statement</u> <u>Student Responsibility Statement</u> <u>Academic Integrity Statement</u> 	
Accessibility Services	
Students who require accommodations to complete the req	uirements and expectations of this course because of a

- disability must make their accommodation requests to the Accessibility Services Coordinator.
- <u>Get Help: JCC & Community Resources</u>
- <u>Emergency Closing Procedures</u>
- Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

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A=4.0 B+=3.5 B=3 C+=2.5 C=2 D+=1.5 D=1 F=0
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• Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.