Common Course Number: MCB-2013-L

Course Title: Microbiology laboratory

Catalog Course Description:
Laboratory course to accompany MCB-2013 complementing lecture topics and providing direct experience with fundamental techniques for observation, isolation, cultivation, counting, identification, and control of microbes.

This course fulfills the 4,000-word requirement of the Gordon Rule.

Credit Hours Breakdown: 3 lecture hours

Prerequisite: None

Co requisite: MCB-2013

Course Competencies:

Competency 1: Microscopic Examinations

Upon successful completion of this laboratory, the student will demonstrate competence in staining and microscopic examination of microbes by:

1.1 Naming, identifying and giving the function of the major parts of the microscope.

1.2 Calculating the total magnification of each lens combination of the microscope.

1.3 Demonstrating the correct and safe use of the microscope.

1.4 Demonstrating the correct use of the oil immersion objective in viewing a slide of bacteria.

1.5 Defining and explaining resolving power, parfocal, working distance, and magnification.

1.6Listing and explaining the various uses and types of stains