

**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.
- 1.6 Listing and explaining the various uses and types of stains