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**CH457****MICROBIOLOGY****3.5 Credit Hours**

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**(BS=3.5,ET=0.0,MA=0.0)****Scope:**

2013-1

**Offerings:**

2014-1 2015-1

This course introduces the diversity of microorganisms in all three domains of life. The course covers prokaryotic cell structure and function, growth, genetics, and metabolism. The course will survey five major groups of microorganisms: eubacteria, archaea, protozoa, fungi and viruses including ecology, their role in human disease and their applications in medicine, industry and warfare. Cadets have the opportunity to explore both a viral and a bacterial disease in-depth and present their findings in a briefing and a paper. The 18-hour laboratory program focuses on practical applications of concepts covered in class, with a particular emphasis on the eubacteria. The lab program culminates with a hands-on laboratory examination.

**Lessons:** 40 @ 55 min (2.500 Att/wk)**Labs:** 7 @ 120 min **Special Requirements:****None Prerequisite(s):**

CH375