Course Prefix and Number:  BIO 205  

Course Title:  General Microbiology  

Course Description:  Examines morphology, genetics, physiology, ecology, and control of microorganisms. Emphasizes application of microbiological techniques to selected fields. Prerequisites: BIO 101-102 and CHM 111-112 or equivalent, or permission of instructor. CHM 101-102 are acceptable equivalent courses. Credits for CHM 101-102 do not count toward the AS in Science degree. Lecture 3 hours. Recitation and laboratory 3 hours. Total 6 hours per week.  

General Course Purpose:  This course emphasizes the application of microbial techniques to selected fields. It provides 4 credits of a laboratory science for the AS in Science degree.  

Course Prerequisites and Co-requisites:  
Prerequisites: BIO 101-102 and CHM 111-112 or equivalent, or permission of instructor. CHM 101-102 are acceptable equivalent courses. Credits for CHM 101-102 do not count toward the AS in Science degree.  

Student Learning Outcomes: 
Upon completing the course, the student will be able to  
a. Understand basic aseptic techniques;  
b. Understand principles of microbiology and culture of microbes;  
c. Understand identifications and culture of microbes; and  
d. Understand applications of microbiology in biotechnology.  

Major Topics to Be Included:  
a. History of microbiology  
b. Cell structure  
c. Microbial metabolism  
d. Microbial genetics  
e. Immunology  
f. Microbes and disease  
g. Microbial ecology  

Date Created/Updated (Month, Day, Year):  January 23, 2019