

Course Title	Microbiology Lab. 1		
Semester	2-1	Course Type	Basic
Course Number	28437-00	No. of Credit	2/0/4
Professor	Soojin Lee	E-mail	leesoojin@cnu.ac.kr
Objective	<p>In order to analyze and explore the phenomena of life, experimental training is absolutely necessary along with theoretical knowledge. The purpose of this course is to acquaint students with basic theories and techniques necessary to study the Microbiology during the first semester of the second year.</p>		
Syllabus	<ol style="list-style-type: none"> 1. Observation of microorganisms and microbial staining techniques (Gram staining, spore staining) 2. Observation of animal cells 3. Preparation of microbial culture media and sterilization (basic aseptic techniques and pure culture) 4. Methods for measuring bacterial and yeast growth 5. Animal cell growth measurement method 6. How to measure virus growth 7. Antibiotics and microbial growth 8. Environmental and Microbial Growth & Statistical Analysis 9. Quantitative analysis of carbohydrates and fatty acids 10. DNA and protein quantitative and qualitative analysis 11. Know the genotype (DNA fingerprinting) 12. Life history and differentiation of fungi 		

