

Course Title	Molecular Biotechnology		
Semester	3-2	Course Type	Advanced
Course Number	27748-00	No. of Credit	3/3/0
Professor	Jeong-Yoon Kim	E-mail	jykim@cnu.ac.kr
Objective	<p>This course aims to help students study the practical knowledge and experimental techniques for current molecular biotechnology, including the genome engineering, recombinant protein production, molecular diagnostics and protein therapeutics.</p>		
Syllabus	<ol style="list-style-type: none"> 1. Introduction 2. Recombinant DNA technology 3. Basics Bioinformatics, Genomics, and Proteomics 4. Genome engineering 5. Protein production in Bacteria 6. Protein modification in Eukaryotes 7. Protein production in Yeast 8. Protein production in mammalian cells 9. Protein engineering 10. Molecular diagnostics 11. Protein therapeutics 12. Synthesis of commercial products by recombinant microorganisms 13. Large scale production of proteins 		