

<b>Course Title</b>	Genetics		
<b>Semester</b>	2-2	<b>Course Type</b>	Core
<b>Course Number</b>	27741-00	<b>No. of Credit</b>	3/3/0
<b>Professor</b>	Jin-mi Kim	<b>E-mail</b>	jmkim@cnu.ac.kr
<b>Objective</b>	Introduction to the principles of genetics with understanding of gene structure and function at the level of molecules, cells, and multicellular organisms, including humans. Include genetic variation resulting from mutation and recombination. Emphasize genetic methods to analyze protein function, gene regulation, and inherited disease.		
<b>Syllabus</b>	<ol style="list-style-type: none"> <li>1.Introduction</li> <li>2.Independent assortment of genes</li> <li>3.Mapping eukaryote chromosomes by recombination</li> <li>4.Gene interaction</li> <li>5.Gene interaction II</li> <li>6.Large-scale chromosomal changes</li> <li>7.DNA: Structure and replication</li> <li>8.RNA: Transcription and processing</li> <li>9.Proteins and their synthesis</li> <li>10.Genetics of Bacteria and their viruses</li> <li>11.Regulation of gene expression in bacteria and thier viruses</li> <li>12.Genomes and genomics</li> <li>13.Mutation, repair, and recombination</li> <li>14.Population genetics</li> <li>15.Population genetics</li> </ol>		