## -- < last update : -- March 28, 2014 >>

Category	Specialized	education	Credit	2		
Subject	General Ger	etics 1				
etailed inform	ation					
Lecture plan / Theme		In "General Genetics 1", the fundamentals of the molecular genetics mainly of the prokaryote <i>(Escherichia coli</i> and phage) is outlined. The technologies of contemporary				
		genetics are also described, looking back upon the history of their development.				
Course Description / Objectives		Students learn about the fundamental of structure and mechanism of prokaryote, and genetics of prokaryote.				
Overview of Each Class		<ol> <li>Structure of Bacterial Cell</li> <li>Structure and the life circle of phage</li> <li>Structure of the DNA</li> <li>DNA Replication (1)</li> <li>DNA Replication (2)</li> <li>Sequencing</li> <li>Gene cloning</li> <li>Gene structure</li> <li>Gene expression and its regulatory mechanism (1)</li> <li>Gene expression and its regulatory mechanism (2)</li> <li>Mutation</li> <li>DNA repair</li> <li>DNA recombination</li> <li>Gene transfer</li> <li>Examination and Commentary</li> </ol>				
Text Book / Reference Books		Handouts will be provided.				
Assessment of A	chievement	(1) Participation; more than $2/3$ of classes are required. (2) Final examination				
Requirements for Students Required; The complet Related subject; "Gen			tion of "General Biology IB", "General Biology IIB" neral Genetics 2"			
Remar						