Oyama College			Yea	Year 2022				ourse Title	Life Science	
Course	Informat	tion			•		•			
Course Co	ode	0005				Course Catego	ry	Specialize	ed / Elective	
Class Format Lect		Lecture			Credits		Academic	Credit: 2		
Department		and Bioe	Advanced Course of Materials Chemistry and Bioengineering				Adv. 1st			
		First Sem	ester			Classes per We	ek	ek 2		
Textbook and/or Teaching Materials										
Instructor			MA Izumi							
	Objectiv	es								
Rubric										
			Ideal Level			Standard Level			Unacceptable Level	
Achievem										
Achievem Achievem			+							
		mont Oh	ioctivos							
	到達度目標	ment Ob	jectives							
, ,	g Metho	<u>-</u>								
Outline	g Medilo	<u>u</u>								
Style										
Notice										
Charact	eristics o	of Class /	Division i	n Le	arning					
☐ Active Learning			☐ Aided by ICT			☑ Applicable t	Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course	Plan						I			
			Theme			Goals				
1st Semeste r	1st Quarter	1st	Biomaterials (Polymers) (Investigate the cour content in advance and submit a report on yo understanding)				Understanding of biomaterials (polymers)			
		l2nd li	Biomaterials (metals, ceramics) (conduct preliminary research on the course content and submit a report on your understanding)				Understand biomaterials (metals, ceramics)			
		3rd	Biomaterials (composite materials, biocompatibility) (Investigate the class content in advance and submit a report on your understanding)				Understanding of biomaterials (composite materials, biocompatibility)			
		4th	Biomaterials (biological reactions, artificial organs) (conduct preliminary research on issues related to class content and submit a report on your understanding)				Understanding of biomaterials (biological reactions, artificial organs)			
		5th	Biomaterials (biological reactions, artificial organs) (conduct preliminary research on issues related to class content and submit a report on your understanding)				Understanding the design of pharmaceuticals (cardiovascular system)			
		6th	Design of pharmaceuticals (cerebral nervous system) (conduct preliminary research on issues related to class content and submit a report on your understanding)				Understanding Pharmaceutical Design (Brain Nervous System)			
		7th	Design of pharmaceuticals (antibiotics, anticancer drugs) (conduct preliminary research on the issues related to the class content and submit a report on your understanding)					Understanding the design of pharmaceuticals (antibiotics, anticancer drugs)		
		8th I	Mid-term exam							
	2nd Quarter	9th t	Cell Engineering: Ectoderm System (Investigate the course content in advance and submit a report of your understanding)				Cell Engineering: Understanding the Ectoderm System			
		10th t	Cell Engineering: Endoderm Lineage (Investigate the course content in advance and submit a report on your understanding)				Cell Engineering: Understanding the Endoderm System			
		11th	Cell engineering: Mesoderm system (Investigate the issues in the class in advance and submit a report on your understanding)				Cell Engineering: Understanding Mesoderm System			
		12th	Genetic engineering: genetically modified plants, genetically modified animals, cloned animals (Investigate the class content in advance and submit a report on your understanding)					Genetic Engineering: To understand genetically modified plants, genetically modified animals, and cloned animals		
		13th	Genetic Engineering: Genetic Diagnosis, Genetic Analysis (Investigate the issues in the class in advance and submit a report on your understanding)					Genetic Engineering: Understanding of genetic diagnosis and genetic analysis		

		14th	Biotechnology: M substances (Inve- advance and sub- understanding)	stigate the class o	content in	Biotechnology: Understanding Mass Production of Useful Materials			
		15th	Biotechnolgy: Encourse content in your understanding	advance and sub	igate the mit a report on	Understanding the use of biotechnology in environmental science			
		16th							
Evaluation Method and Weight (%)									
		Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total	
Subtotal		0	0	0	0	0	0	0	
Basic Proficiency	,	0	0	0	0	0	0	0	
Specialized Proficiency		0	0	0	0	0	0	0	
Cross Area Proficiency		0	0	0	0	0	0	0	