

Chang Jung Christian University Department of Bioscience Technology Curriculum List

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obligatory / elective course	No.	course name(ch)	course name	grade	semester	credit	hours/week		Remark
							instruction	parctice	
common course-obligatory	MT00085	全民國防教育軍事訓練-國際情勢	All-out Defence Education Military Training - International Situations	1	1	0	2	0	
	MT00086	全民國防教育軍事訓練-國防政策	All-out Defence Education Military Training - National Defense Policies	1	2	0	2	0	
	PE00217	體育 I	Physical Education I	1	1	0	2	0	
	PE00218	體育 II	Physical Education II	1	2	0	2	0	
	PE00219	體育 III	Physical Education III	2	1	0	2	0	
	PE00220	體育 IV	Physical Education IV	2	2	0	2	0	
language course-obligatory	GE00561	國文	Chinese	1	2	2	2	0	
	LE00297	英文 I	Freshman English I	1	1	2	2	0	
	LE00298	英文 II	Freshman English II	1	2	2	2	0	
	LE00299	外語初級 I		2	1	2	2	0	
	LE00300	外語初級 II		2	2	2	2	0	
general course-obligatory	BT00030	生物科技倫理	Biotechnology and Ethics	2	2	2	2	0	
	GE00206	音樂欣賞	Music Appreciation	1	1	2	2	0	
	GE00537	服務學習	Service-Learning	1	2	1	1	2	
	GE00562	長榮精神	University and Holistic Pastoral Education	1	1	2	2	0	
	GE00567	通識課程		0	1	8	2	0	
	GE00656	體驗學習	Experience Learning	1	1	1	1	2	
	GE00663	經典99	Classics 99	0	1	2	2	0	
dep. course-obligatory	BT00032	生物科技導論	Introduction of Biotechnology	1	1	2	2	0	
	BT00200	普通生物學 I	Biology I	1	1	3	3	0	
	BT00242	生物科技專業英文	Biotechnology professional English	1	1	1	1	0	
	BT00268	普通化學	General Chemistry	1	1	2	2	0	
	BT00082	普通化學實驗	General Chemistry Laboratory	1	1	1	0	3	
	BT00045	有機化學	Organic Chemistry	1	2	3	3	0	
	BT00046	有機化學實驗	Organic Chemistry Laboratory	1	2	1	0	3	
	BT00085	普通生物學實驗	General Biology Laboratory	1	2	1	0	3	
	BT00126	人體生理學	Human Physiology	2	1	3	3	0	
	BT00127	人體生理學實驗	Human Physiology Laboratory	2	1	1	0	3	
	BT00202	生物化學 I	Biochemistry I	2	1	3	3	0	
	BT00203	生物化學 II	Biochemistry II	2	2	3	3	0	
	BT00091	微生物學	Microbiology	2	2	3	3	0	
	BT00093	微生物學實驗	Microbiology Laboratory	2	2	1	0	3	

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dep. course-obligatory	BT00259	生物化學實驗	Biochemistry Laboratory	2	2	1	0	3	
	BT00269	遺傳學	Genetics	2	2	2	2	0	
	BT00075	細胞生物學	Cell Biology	3	1	3	3	0	
	BT00047	免疫學	Immunology	3	1	3	3	0	
	BT00206	文獻選讀I	Literature Search and Review I	3	1	1	1	0	
	BT00270	細胞培養學暨實驗	Concepts and Skills in Cell Culture & Laboratory	3	1	3	3	0	
	BT00005	分子生物學	Molecular Biology	3	2	3	3	0	
	BT00006	分子生物學實驗	Molecular Biology Laboratory	3	2	1	0	3	
	BT00038	生物資訊學概論	Introduction to Bioinformatics	3	2	2	2	0	
	BT00214	專題討論I	Seminar I	4	1	1	2	0	
dep. course-elective	BT00130	計算機概論	Basic Concept of Computer	1	1	2	2	0	
	BT00280	微積分I	Calculus I	1	1	3	3	0	
	BT00223	普通物理	General Physics	1	2	2	2	0	
	BT00260	生物科學新知	Bioscience News	1	2	2	2	0	
	BT00261	藥用植物學	Pharmaceutical Botany	1	2	2	2	0	
	BT00201	普通生物學II	Biology II	1	2	2	2	0	
	BT00262	綠能科技	Green energy conversion science and technology	1	2	2	2	0	
	BT00273	生物科技專業英文II	Biotechnology professional English II	1	2	1	1	0	
	BT00281	微積分II	Calculus II	1	2	3	3	0	
	BT00282	程式設計與數據分析	Computer Programming and Data Analysis	1	2	2	2	0	
	BT00007	分析化學	Analytical Chemical	2	1	3	3	0	
	BT00104	營養學	Nutrition	2	1	2	2	0	
	BT00003	人體解剖學概論	Introduction of Human Gross Anatomy	2	1	2	2	0	
common course-elective	MT00040	軍訓III	Military Education III	2	1	1	2	0	
dep. course-elective	BT00283	基因改造生物學	Genetically Modified Organisms(GMOs)	2	1	2	2	0	
	BT00114	植物生理	Plant Physiology	2	1	2	2	0	
	BT00263	有機農業生技	Organic agricultural biotechnology	2	1	2	2	0	
	BT00284	再生醫學與組織工程	Regenerative Medicine and Tissue Engineering	2	1	2	2	0	
	BT00009	分析化學實驗	Analytical Chemistry Laboratory	2	1	1	0	3	
	BT00210	環境生態學	Environmental Ecology	2	2	2	2	0	
	BT00101	儀器分析	Instrumental Analysis	2	2	2	2	0	

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dep. course-elective	BT00031	生物科技管理講座	Biotechnology Managemebt Series	2	2	2	2	0	
	BT00180	老人醫學	Geriatrics	2	2	2	2	0	
common course-elective	MT00042	軍訓IV	Military Education IV	2	2	1	2	0	
dep. course-elective	BT00238	生技實務 I	Biotechnology Practice I	2	2	2	2	0	
	BT00265	奈米科技概論	Introduction to Nanotechnology	2	2	2	2	0	
	BT00279	肌膚保健實作	Skin care product development	2	2	2	2	0	
	BT00099	實驗室認證與管理	Laboratory Management and Accreditation	3	1	2	2	0	
	BT00171	酵素學	Fundamentals of Enzymology	3	1	2	2	0	
	BT00222	神經生物學	Neurobiology	3	1	2	2	0	
	BT00226	環境毒物學	Environmental Toxicology	3	1	2	2	0	
	BT00172	藥理學	Pharmacology	3	1	2	2	0	
	BT00240	專題研究I	Study on Special Topics I	3	1	3	3	0	
	BT00063	病理學概論	Introduction of Pathology	3	1	2	2	0	
	BT00266	疾病綜論	Comprehensive theory of disease	3	1	2	2	0	
common course-elective	PE00343	體育V	Physical Education V	3	1	1	2	0	
dep. course-elective	BT00036	生物統計學	Biostatistics	3	1	3	3	0	
	BT00100	實驗動物學	Laboratory Animals	3	2	2	2	0	
	BT00090	發酵學	Introduction Fermentation	3	2	2	2	0	
	BT00170	生物科技法規及專利權	Biotechnology Regulations and Patent Rights	3	2	2	2	0	
	BT00096	腫瘤生物學	Cancer biology	3	2	2	2	0	
	BT00218	疫苗與免疫偵檢試劑實務	Vaccine and Diagnostic Practice	3	2	2	2	0	
	BT00131	醫用病毒學	Medical Virology	3	2	2	2	0	
	BT00272	生醫產業概論	Introduction to bioindustry	3	2	2	2	0	
	BT00207	文獻選讀II	Literature Search and Review II	3	2	1	1	0	
common course-elective	PE00344	體育VI	Physical Education VI	3	2	1	2	0	
dep. course-elective	BT00271	初級英語書報討論	Primary Professional Article Discussion in English	3	2	2	2	0	
	BT00274	內分泌與環境	Internal and external secretion and Environment	3	2	2	2	0	
	BT00241	專題研究II	Study on Special Topics II	3	2	3	3	0	

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common course-elective	PE00225	體育VII	Physical Education VII	4	1	1	2	0	
dep. course-elective	BT00220	環境衛生昆蟲學	Environmental and medical entomology	4	1	2	2	0	
	BT00228	基因體學	Genomic	4	1	2	2	0	
	BT00229	生物材料學	Biomaterials	4	1	2	2	0	
	BT00230	環境微生物	Environmental Microbiology	4	1	2	2	0	
	BT00237	專業實習	Practice on special topics	4	1	2	0	6	
	BT00239	生技實務II	Biotechnology Practice II	4	1	2	2	0	
	BT00179	生技製藥	Pharmaceutical Biotechnology	4	2	2	2	0	
common course-elective	PE00227	體育VIII	Physical Education VIII	4	2	1	2	0	
dep. course-elective	BT00231	生物醫學工程學	Biomedical engineering	4	2	2	2	0	
	BT00235	生技產業實務討論	Practice discussion of the biotech industry	4	2	2	2	0	
	BT00215	專題討論II	Seminar II	4	2	1	2	0	
	BT00267	綜合組學	Integrated genomics	4	2	2	2	0	
obligatory 76 elective course 52 credit sum 128									