

Chang Jung Christian University Department of Computer Science and Information Engineering Curriculum

List

(Curriculum Guides,2019 Academic Year)

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obligatory / elective course	No.	course name(ch)	course name	grade	semester	credit	hours/week		Remark	
							instruction	parctice		
common course-obligatory	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	Foreign Language (basic)I	2	1	2	2	0		
general course-obligatory	LE00300	外語初級 II	Foreign Language (basic)II	2	2	2	2	0		
	GE00206	音樂欣賞	Music Appreciation	1	1	2	2	0		
	GE00537	服務學習	Service-Learning	2	1	1	1	2		
	GE00562	長榮精神	University and Holistic Pastoral Education	1	2	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		
	ZA00165	資訊倫理	Information Ethics	2	1	2	2	0		
	dep. course-obligatory	ZA00354	資訊暨設計體驗課程	Practice & Experience in Information and Design	1	1	2	2	0	
		ZA00356	電腦繪圖技法	Computer Graphic Skill	1	1	3	3	0	
		ZA00355	基礎程式設計	Fundamental Programming	1	1	3	3	0	
ZA00004		計算機概論	Introduction to Computer	1	1	3	3	0		
ZA00448		基礎設計	Basic Design	1	1	2	2	0		
ZA00279		程式設計	Computer Programming	1	2	3	3	0		
ZA00120		靜態網頁設計	Static Web Programming	1	2	3	3	0		
ZA00166		色彩學	Chromatics	1	2	2	2	0		
ZA00360		電腦繪圖設計	Computer Graphic Design	1	2	3	3	0		
ZA00029		線性代數	Linear Algebra	2	1	3	3	0		
ZA00034		資料結構	Data Structures	2	1	3	3	0		
ZA00100		微積分	Calculus	2	1	3	3	0		
ZA00066		離散數學	Discrete Mathematics	2	2	3	3	0		
ZA00007		邏輯設計	Logic Circuits Design	2	2	3	3	0		
ZA00046	作業系統	Operation System	3	1	3	3	0			
ZA00362	專題實作I	Project I	3	2	1	1	0			
ZA00369	計算機結構	Computer Architecture	3	2	3	3	0			
ZA00363	專題實作II	Project II	4	1	1	1	0			

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dep. course-elective	ZA00346	資訊暨設計學院微學分II	Micro Credit Points in College of Information and Design II	0	1	1	1	0	
	ZA00347	資訊暨設計學院微學分I	Micro Credit Points in College of Information and Design I	0	1	1	1	0	
	ZA00218	設計美學	Design Aesthetics	1	1	2	2	0	
	ZA00118	網際網路概論	Introduction to Internet	1	1	3	3	0	
	ZA00180	設計素描	Design Drawing	1	1	3	3	0	
	ZA00262	電子商務	Electronic Commerce	1	1	3	3	0	
	ZA00445	無人機概論	Introduction to unmanned aerial vehicles	1	1	2	2	0	
	ZA00361	資訊科技實務	Practice in Information Technology	1	2	3	3	0	
	ZA00170	基礎攝影學	Introduction to Photography	1	2	3	3	0	
	ZA00227	造形原理	Molding Theory	1	2	2	2	0	
	ZA00446	電子通用設計	Basic Electronic	1	2	2	2	0	
	ZA00447	無人機空拍技巧概論	Introduction to Aerial photography using drones	1	2	2	2	0	
	ZA00121	多媒體概論	Fundamentals of Multimedia	2	1	3	3	0	
	ZA00114	物聯網概論	Basic Internet of Things	2	1	3	3	0	
	ZA00220	互動程式設計 I	Interactive Programming I	2	1	3	3	0	
	ZA00038	物件導向程式設計	Object Oriented Programming	2	1	3	3	0	
	ZA00103	計算機網路	Computer Networks	2	1	3	3	0	
	ZA00366	專業程式設計	Professional programming	2	1	3	3	0	
	ZA00123	電子電路應用	Electronic Circuit Applications	2	1	2	2	0	
	ZA00124	電子電路學	Electronic Circuit	2	1	3	3	0	
	ZA00115	科技英文	Technology English	2	1	2	2	0	
	ZA00437	統計與資料分析	Statistic and Data Analysis	2	1	3	3	0	
	ZA00098	程式設計實務	Programming Practice	2	1	2	2	0	
	ZA00122	資料庫系統	Database Systems	2	2	3	3	0	
	ZA00127	多媒體實務	Multimedia Applications	2	2	3	3	0	
	ZA00234	互動程式設計II	Interactive Programming II	2	2	3	3	0	
	ZA00058	嵌入式系統	Embedded syetem	2	2	3	3	0	
	ZA00069	行動裝置程式設計	Programming for Mobile Devices	2	2	3	3	0	
	ZA00125	網頁互動程式設計	Interactive Web Design and Implement	2	2	3	3	0	
	ZA00128	資料結構應用	Data Structure Applications	2	2	3	3	0	
	ZA00131	生物資訊概論	Introduction to Bioinformatics	2	2	3	3	0	
	ZA00155	資訊安全管理	Information Security Management	2	2	3	3	0	
	ZA00132	邏輯設計實務	Logic Design Practices	2	2	2	2	0	

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dep. course-elective	ZA00438	影像處理	Image Processing	2	2	3	3	0	
	ZA00108	演算法	Algorithm	2	2	3	3	0	
	ZA00104	系統程式	System Programs	3	1	3	3	0	
	ZA00134	互動多媒體	Interactive Multimedia	3	1	3	3	0	
	ZA00350	物聯網大數據分析	IoT Big Data Analysis	3	1	3	3	0	
	ZA00126	動態網頁設計	Dynamic Web Page Design	3	1	3	3	0	
	ZA00133	進階行動裝置程式設計	Advance Mobile Device Programming	3	1	3	3	0	
	ZA00139	系統分析與設計	System Analysis and Design	3	1	3	3	0	
	ZA00079	數位訊號處理	Introduction to Digital Signal Processing	3	1	3	3	0	
	ZA00137	網際網路程式設計	Web Programming	3	1	3	3	0	
	ZA00047	機率與統計	Probabilities and Statistics	3	1	3	3	0	
	ZA00140	雲端計算	Cloud Computing	3	1	3	3	0	
	ZA00269	網路安全	Network Security	3	1	3	3	0	
	ZA00430	組合語言		3	1	3	3	0	
	ZA00268	雲端運算概念與實務	Concepts and Practices of Cloud Computing	3	1	3	3	0	
	ZA00162	人工智慧	Artificial Intelligence	3	1	3	3	0	
	ZA00483	鏡頭語言與特效製作	Film Language and Visual Effects	3	1	3	3	0	
	ZA00547	3D材質與燈光	3D Texturing and Lighting	3	1	3	3	0	
	ZA00364	專題討論I	Project discussion I	3	2	2	2	0	
	ZA00138	遊戲引擎應用	Application of Game Engine	3	2	3	3	0	
	ZA00081	數位影像處理	Digital image processing	3	2	3	3	0	
	ZA00351	智慧物聯網專題製作	Smart IoT Project	3	2	3	3	0	
	ZA00352	人工智慧實務	Artificial Intellegent with Practice	3	2	3	3	0	
	ZA00151	高等程式設計	Advanced Computer Programming	3	2	3	3	0	
	ZA00141	無線通訊系統	Wireless Communication Systems	3	2	3	3	0	
	ZA00142	軟體工程	Software Engineering	3	2	3	3	0	
	ZA00143	資料庫應用	Database Applications	3	2	3	3	0	
	ZA00144	資訊檢索	Information Retrieval	3	2	3	3	0	
	ZA00145	物件導向軟體工程	Object-Oriented Software Engineering	3	2	3	3	0	
	ZA00146	微處理機原理與應用	Principles and Applications of Microprocessors	3	2	3	3	0	
	ZA00147	數位學習	Digital Learning	3	2	3	3	0	

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dep. course-el ective	ZA00367	網站技術	Website skill	3	2	3	3	0	
	ZA00431	數值分析		3	2	3	3	0	
	ZA00432	程式語言		3	2	3	3	0	
	ZA00270	機器學習	Machine Learning	3	2	3	3	0	
	ZA00439	自然語言處理	Natural Language Processing	3	2	3	3	0	
	ZA00365	專題討論II	Project discussion II	4	1	2	2	0	
	ZA00148	人機互動應用	The applications of HUMAN-COMPUTER INTERACTION	4	1	3	3	0	
	ZA00353	智慧健康照護	Smart Health Care	4	1	3	3	0	
	ZA00153	視訊處理	Video Signal Processing	4	1	3	3	0	
	ZA00154	編譯程式	Compiler	4	1	3	3	0	
	ZA00157	微處理器及數位系統	Microprocessors and Digital Systems	4	1	3	3	0	
	ZA00158	高效能及平行計算系統	High Performance and Parallel Computing	4	1	3	3	0	
	ZA00159	通訊及訊號處理	Telecoms & Signal Processing	4	1	3	3	0	
	ZA00160	電路設計	Electronic Design	4	1	3	3	0	
	ZA00340	軟體測試	Software Testing	4	1	3	3	0	
	ZA00433	電腦圖學		4	1	3	3	0	
	ZA00440	深度學習	Deep Learning	4	1	3	3	0	
	ZA00475	複合系統	Complex Systems	4	1	3	3	0	
	ZA00161	多媒體音訊處理	Special Topic on Information Technology	4	2	3	3	0	
	ZA00082	企業實習 I	Enterprise Internship I	4	2	3	0	9	
	ZA00083	企業實習 II	Enterprise Internship II	4	2	3	0	9	
	ZA00084	企業實習 III	Enterprise Internship III	4	2	3	0	9	
	ZA00163	資料探勘	Data Mining	4	2	3	3	0	
	ZA00164	資訊科技專題	Special Topic on Information Technology	4	2	3	3	0	
	ZA00156	進階專案實作	Advance Graduation Project	4	2	3	3	0	
	ZA00368	虛擬機器實務	Practice in virtual machine	4	2	3	3	0	
	ZA00434	智慧機器人		4	2	3	3	0	
	ZA00435	獨立研究		4	2	3	3	0	
	ZA00436	類神經網路		4	2	3	3	0	

obligatory 73
elective course 55
credit sum 128