

Chang Jung Christian University Bachelor Degree Program of Unmanned Aerial Vehicle 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	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	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	
	GE00663	經典99	Classics 99	0	1	2	2	0	
	ZA00274	航空法規與倫理	Air Traffic Regulation and Ethics	1	2	3	3	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	
	ZA00275	飛行概論	Introduction to flight	1	1	3	3	0	
	ZA00409	旋翼機基礎實務	Fundamental Practice of Rotorcraft	1	1	3	3	0	
	ZA00004	計算機概論	Introduction to Computer	1	1	3	3	0	
	ZA00355	基礎程式設計	Fundamental Programming	1	1	3	3	0	
	ZA00218	設計美學	Design Aesthetics	1	1	2	2	0	
	ZA00356	電腦繪圖技法	Computer Graphic Skill	1	1	3	3	0	
	ZA00279	程式設計	Computer Programming	1	2	3	3	0	
	ZA00100	微積分	Calculus	1	2	3	3	0	
	ZA00410	定翼機基礎實務	Wing Machine Basic Practice	1	2	3	3	0	
	ZA00294	物理學	Physics	1	2	2	2	0	
	ZA00415	動力學	Dynamics	2	1	2	2	0	
	ZA00392	電子電路學	Electronic Circuits	2	1	2	2	0	
	ZA00411	工程數學	Engineering Mathematics	2	1	2	2	0	
	ZA00393	飛航管制	Flight Control	2	2	2	2	0	
ZA00412	流體力學	Hydromechanics	2	2	2	2	0		
ZA00394	飛安管理	Flight Safety Management	3	1	2	2	0		
ZA00413	空氣動力學	Aerodynamics	3	1	2	2	0		

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dep. course-obligatory	ZA00362	專題實作I	Project I	3	2	1	1	0	
	ZA00395	無人機設計實務	Practice in Unmanned Aerial Vehicle Design	3	2	2	2	0	
	ZA00363	專題實作II	Project II	4	1	1	1	0	
dep. course-elective	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	
	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	
	ZA00357	辦公室軟體應用	Application of Office Software	1	1	2	2	0	
	ZA00358	無人機空拍	Drone Aerial Photography	1	1	2	2	0	
	ZA00293	化學	Chemistry	1	2	2	2	0	
	ZA00295	靜力學	Statics	1	2	3	3	0	
	ZA00285	圖學 I	Graphics I	1	2	2	2	0	
	ZA00287	機構設計	Mechanical Design	2	1	3	3	0	
	ZA00286	圖學 II	Graphics II	2	1	2	2	0	
	ZA00060	訊號與系統	Signals and Systems	2	1	3	3	0	
	ZA00296	工業衛生概論	Introduction to Industrial Hygiene	2	1	2	2	0	
	ZA00297	地理資訊系統 I	Geographic Information Systment I	2	1	2	2	0	
	ZA00299	作業環境測定 I	Workplace Monitoring I	2	1	2	2	0	
	ZA00301	無人機空間資訊應用	Applicaton of UAV Space In Formation	2	1	3	3	0	
	ZA00302	環境科學	Environmental Science	2	1	3	3	0	
	ZA00057	感測器理論與應用	Theory and Applications of Biosensor	2	1	3	3	0	
	ZA00310	材料力學	Mechanics of Materials	2	1	3	3	0	
	ZA00068	機電整合	Introduction to Mechatronics	2	1	3	3	0	
	ZA00298	地理資訊系統 II	Geographin Information Systment II	2	2	2	2	0	
	ZA00300	作業環境測定 II	Workplace Monitoring II	2	2	2	2	0	
	ZA00304	工業安全概論	Introduction to Industrial Safety	2	2	2	2	0	
	ZA00305	航測及遙測基礎	Introduction of Aerial Survey and Remote Sensing	2	2	2	2	0	
	ZA00306	航測及遙測基礎實習	Exercise in Aerial Survey and Remote Sensing	2	2	2	0	4	
	ZA00396	航空氣象	Aeronautical Meteorology	2	2	3	3	0	
	ZA00308	飛行控制程式設計	Program Design of Flight Control	2	2	3	3	0	
	ZA00309	熱力學	Thermodynamics	2	2	3	3	0	
	ZA00315	地面站軟體開發	Ground Station Programming	2	2	3	3	0	
	ZA00397	電腦3D繪圖實務	Practice in 3D Computer Graphics	2	2	3	3	0	
	ZA00398	飛行力學	Flight Dynamics	2	2	3	3	0	

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	ZA00048	控制系統	Control System	2	2	3	3	0	
	ZA00311	進階地理資訊系統實務	Advanced Practice in Geographic Information System	3	1	3	3	0	
	ZA00081	數位影像處理	Digital image processing	3	1	3	3	0	
	ZA00312	作業環境測定實務	Practiced of Environmental Monitoring at Workplaces	3	1	2	2	0	
	ZA00313	環境採樣分析	Environmental Sampling and Analysis	3	1	2	2	0	
	ZA00399	熱傳學	Heat Transfer	3	1	3	3	0	
	ZA00074	機器視覺	Machine Vision	3	1	3	3	0	
	ZA00386	3D成型與設計	3D Molding and Design	3	1	3	3	0	
	ZA00283	無人機專題實務I	Ineividual Studies in UAV I	3	1	3	3	0	
	ZA00400	通訊原理實務應用	Principles of Communications Practical Application	3	2	3	3	0	
	ZA00318	災害防救工作實務	Practice in Hazard Prevention and Response	3	2	2	2	0	
	ZA00284	無人機專題實務II	Ineividual Studies in UAV II	3	2	3	3	0	
	ZA00401	飛機結構學	Aircraft Structural	3	2	3	3	0	
	ZA00389	深度學習實務	Practice in Deep Learning	3	2	3	3	0	
	ZA00402	材料科學	Material Science	3	2	3	3	0	
	ZA00319	土地利用調查	Land Use Survey	3	2	2	2	0	
	ZA00320	職業安全衛生法規	Occupational Safety and Health Act	3	2	2	2	0	
	ZA00364	專題討論I	Project discussion I	3	2	2	2	0	
	ZA00348	數值製圖	Numerical Drawing	4	1	3	3	0	
	ZA00365	專題討論II	Project discussion II	4	1	2	2	0	
	ZA00390	智慧機器人應用專案	Intelligent Robot Application Project	4	1	3	3	0	
	ZA00321	工業與環境毒物	Industrial and Environmental Toxicology	4	1	2	2	0	
	ZA00082	企業實習 I	Enterprise Internship I	4	1	3	0	9	
	ZA00083	企業實習 II	Enterprise Internship II	4	1	3	0	9	
	ZA00084	企業實習 III	Enterprise Internship III	4	1	3	0	9	
	ZA00093	企業實習 IV	Enterprise Internship IV	4	2	3	0	9	
	ZA00094	企業實習 V	Enterprise Internship V	4	2	3	0	9	
	ZA00095	企業實習 VI	Enterprise Internship VI	4	2	3	0	9	

obligatory 77  
 elective course 51  
 credit sum 128