

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	
language course-elective	LE00301	外語中級 I		3	1	2	2	0	
	LE00302	外語中級 II		3	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	
	ZA00000	科技工程倫理	Scientific and Engineering Ethics	1	1	3	3	0	
dep. course-obligatory	ZA00002	經濟學	Economics	1	1	2	2	0	
	ZA00003	物理學	Physics	1	1	3	3	0	
	ZA00004	計算機概論	Introduction to Computer	1	1	3	3	0	
	ZA00005	微積分 I	Calculus I	1	1	3	3	0	
	ZA00011	企業概論	Introduction to Business Administration	1	1	2	2	0	
	ZA00006	微積分 II	Calculus II	1	2	3	3	0	
	ZA00007	邏輯設計	Logic Circuits Design	1	2	3	3	0	
	ZA00008	邏輯設計實習	Logic Circuits Design Lab.	1	2	1	0	2	
	ZA00009	程式設計 I	Computer Language Programming I	1	2	3	3	0	
	ZA00012	管理學	Management	1	2	3	3	0	

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dep. course-obligatory	ZA00010	程式設計 II	Computer Programming II	2	1	3	3	0	
	ZA00013	工程數學 I	Engineering Mathematics I	2	1	3	3	0	
	ZA00014	電路學	Electrical Circuits Theory	2	1	3	3	0	
	ZA00019	電路學實習	Electrical Circuits Theory Lab.	2	1	1	0	2	
	ZA00015	電子學 I	Electronics I	2	2	3	3	0	
	ZA00020	電子學實習	Electronics Lab.	2	2	1	0	2	
	ZA00018	電磁學	Electromagnetics	2	2	3	3	0	
	ZA00222	專題計畫導論	Introduction to Project Planning	3	1	1	1	0	
	ZA00021	畢業專題實作 I	Graduation Project I	3	2	2	2	0	
	ZA00022	畢業專題實作 II	Graduation Project II	4	1	2	2	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	
	ZA00001	會計學	Accounting	1	1	2	2	0	
	ZA00025	專業英文	Professional English	1	1	2	2	0	
	ZA00026	工程概論	Introduction to Engineering	1	2	2	2	0	
	ZA00027	工業組織與管理	Industrial Organization and Management	1	2	3	3	0	
	ZA00029	線性代數	Linear Algebra	1	2	3	3	0	
	ZA00030	企業資源規劃	Enterprise Resources Planning	1	2	3	3	0	
	ZA00031	數位系統設計	Digital System Design	2	1	3	3	0	
	ZA00032	計算機組織	Computer Organization	2	1	3	3	0	
	ZA00034	資料結構	Data Structures	2	1	3	3	0	
	ZA00040	綠色能源概論	Introduction to Green Energy	2	1	3	3	0	
	ZA00385	創意機器人	Creative Robot	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	
	ZA00103	計算機網路	Computer Networks	2	1	3	3	0	
	ZA00057	感測器理論與應用	Theory and Applications of Biosensor	2	1	3	3	0	
	ZA00041	工程數學 II	Engineering Mathematics II	2	2	3	3	0	
	ZA00043	人力資源管理	Human Resource Management	2	2	3	3	0	
	ZA00044	超大型積體電路設計導論	Introduction to VLSI Design	2	2	3	3	0	
	ZA00045	單晶片應用設計	Single-chip application design	2	2	3	3	0	
	ZA00047	機率與統計	Probabilities and Statistics	2	2	3	3	0	
	ZA00048	控制系統	Control System	2	2	3	3	0	
	ZA00051	生醫感測系統	Biomedical Sensing Systems	2	2	3	3	0	
	ZA00234	互動程式設計 II	Interactive Programming II	2	2	3	3	0	

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dep. course-elective	ZA00386	3D成型與設計	3D Molding and Design	2	2	3	3	0	
	ZA00308	飛行控制程式設計	Program Design of Flight Control	2	2	3	3	0	
	ZA00329	商業智慧概論	Introduction to Business Intelligence	2	2	3	3	0	
	ZA00143	資料庫應用	Database Applications	2	2	3	3	0	
	ZA00038	物件導向程式設計	Object Oriented Programming	2	2	3	3	0	
	ZA00035	視窗程式設計	Windows Programming	2	2	3	3	0	
	ZA00135	作業系統實務	Practical operating systems	2	2	3	3	0	
	ZA00058	嵌入式系統	Embedded syetem	2	2	3	3	0	
	ZA00028	電子學II	Electronics II	3	1	3	3	0	
	ZA00052	全面品質管理I	Total Quality Management I	3	1	3	3	0	
	ZA00053	創意設計	Creative Design	3	1	3	3	0	
	ZA00054	數值方法與電腦應用	Numerical Methods and Computer Applications	3	1	3	3	0	
	ZA00055	通訊電子學	Communication Electronics	3	1	3	3	0	
	ZA00056	數位積體電路	Digital Integrated Circuits	3	1	3	3	0	
	ZA00059	工程應用程式設計	Applied Engineering Programming	3	1	3	3	0	
	ZA00060	訊號與系統	Signals and Systems	3	1	3	3	0	
	ZA00091	專案管理	Project Management	3	1	3	3	0	
	ZA00074	機器視覺	Machine Vision	3	1	3	3	0	
	ZA00350	物聯網大數據分析	IoT Big Data Analysis	3	1	3	3	0	
	ZA00387	社群與網路行銷	Community and Internet Marketing	3	1	3	3	0	
	ZA00388	統計應用	Application of Statistics	3	1	3	3	0	
	ZA00068	機電整合	Introduction to Mechatronics	3	1	3	3	0	
	ZA00064	行銷學	Marketing	3	2	3	3	0	
	ZA00065	全面品質管理II	Total Quality Management II	3	2	2	2	0	
	ZA00066	離散數學	Discrete Mathematics	3	2	3	3	0	
	ZA00067	專利概論	Introduction to Patents	3	2	3	3	0	
	ZA00069	行動裝置程式設計	Programming for Mobile Devices	3	2	3	3	0	
	ZA00070	通訊系統	Communication System	3	2	3	3	0	
	ZA00071	圖控介面與程式設計	Graphic Control Interface and Programming	3	2	3	3	0	
	ZA00389	深度學習實務	Practice in Deep Learning	3	2	3	3	0	
	ZA00352	人工智慧實務	Artificial Intellegent with Practice	3	2	3	3	0	
	ZA00351	智慧物聯網專題製作	Smart IoT Project	3	2	3	3	0	
	ZA00163	資料探勘	Data Mining	3	2	3	3	0	

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dep. course-elective	ZA00272	資料視覺化應用	Data Visualization	3	2	3	3	0	
	ZA00076	科技管理	Technology Management	4	1	3	3	0	
	ZA00078	積體電路應用設計	Application Design of Integrated-Circuits	4	1	3	3	0	
	ZA00079	數位訊號處理	Introduction to Digital Signal Processing	4	1	3	3	0	
	ZA00081	數位影像處理	Digital image processing	4	1	3	3	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	
	ZA00390	智慧機器人應用專案	Intelligent Robot Application Project	4	1	3	3	0	
	ZA00353	智慧健康照護	Smart Health Care	4	1	3	3	0	
	ZA00391	大數據資料分析	Big Data Analysis	4	1	3	3	0	
	ZA00088	光電導論	Introduction to Optical Electronics	4	2	3	3	0	
	ZA00089	生物感測系統	Biosensor Systems	4	2	3	3	0	
	ZA00090	技術管理	Technical Management	4	2	3	3	0	
	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									