

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	EA00206	科技工程倫理	Scientific and Engineering Ethics	1	1	3	3	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	
	GE00663	經典99	Classics 99	0	1	2	2	0	
dep. course-obligatory	EA00287	會計學	Accounting	1	1	2	2	0	
	EA00179	經濟學	Economics	1	1	2	2	0	
	EA00177	物理學	Physics	1	1	3	3	0	
	EA00055	計算機概論	Introduction to Computer Science	1	1	3	3	0	
	EA00218	微積分 I	Calculus I	1	1	3	3	0	
	EA00219	微積分 II	Calculus II	1	2	3	3	0	
	EA00149	邏輯設計	Logic Circuits Design	1	2	3	3	0	
	EA00257	邏輯設計實習	Logic Circuits Design Lab.	1	2	1	0	2	
	EA00093	程式設計	Computer Language Programming	1	2	3	3	0	
	EA00288	程式設計實習	Computer Language Programming Lab.	1	2	1	0	2	

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dep. course-obligatory	EA00180	企業概論	Introduction to Business Administration	1	2	2	2	0	
	EA00124	管理學	Management	2	1	3	3	0	
	EA00220	工程數學 I	Engineering Mathematics I	2	1	3	3	0	
	EA00222	電子學 I	Electronics I	2	1	3	3	0	
	EA00302	電子學實習 I	Electronics Lab. I	2	1	1	0	2	
	EA00223	電子學 II	Electronics II	2	2	3	3	0	
	EA00303	電子學實習 II	Electronics Lab. II	2	2	1	0	2	
	EA00120	電磁學	Electromagnetics	2	2	3	3	0	
	EA00298	專題計畫導論	Introduction to Project Planning	3	1	1	1	0	
	EA00228	畢業專題實作 I	Graduation Project I	3	2	2	2	0	
	EA00229	畢業專題實作 II	Graduation Project II	4	1	2	2	0	
dep. course-elective	EA00321	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	
	EA00322	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	
	EA00204	專業英文	Professional English	1	1	2	2	0	
	EA00010	工程概論	Introduction to Engineering	1	2	2	2	0	
	EA00246	工業組織與管理	Industrial Organization and Management	1	2	3	3	0	
	EA00119	電路學	Electrical Circuits Theory	1	2	3	3	0	
	EA00133	線性代數	Linear Algebra	1	2	3	3	0	
	EA00306	電路製作實務	Practice of Electronic Circuit Making	1	2	2	2	0	
	EA00307	航空原理	Aviation Principle	1	2	3	3	0	
	EA00308	無人機實務 I	Practice of Unmanned Aerial Vehicle I	1	2	2	2	0	
common course-elective	MT00040	軍訓 III	Military Education III	2	1	1	2	0	
dep. course-elective	EA00268	奈米電子元件導論	Introduction to Nano Electronic Devices	2	1	3	3	0	
	EA00185	數位系統設計	Digital System Design	2	1	3	3	0	
	EA00282	半導體製程 I	Semiconductor Manufacturing Technology I	2	1	3	3	0	
	EA00054	計算機組織	Computer Organization	2	1	3	3	0	
	EA00117	電腦網路	Computer Networks	2	1	3	3	0	
	EA00108	資料結構	Data Structures	2	1	3	3	0	
	EA00249	視窗程式設計	Windows programming	2	1	3	3	0	
	EA00264	靜電保護電路設計導論	Introduction to ESD Protection Circuit Design	2	1	3	3	0	

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dep. course-elective	EA00304	數位系統設計實務	Digital System Design practice	2	1	1	1	0	
	EA00309	視窗程式設計實務	Windows Programming Practice	2	1	1	1	0	
	EA00310	無人機應用導論	Introduction to Unmanned Aircraft System Applications	2	1	3	3	0	
common course-elective	MT00042	軍訓IV	Military Education IV	2	2	1	2	0	
dep. course-elective	EA00221	工程數學 II	Engineering Mathematics II	2	2	3	3	0	
	EA00087	組織行為	Organization Behavior	2	2	2	2	0	
	EA00007	人力資源管理	Human Resource Management	2	2	3	3	0	
	EA00096	超大型積體電路設計導論	Introduction to VLSI Design	2	2	3	3	0	
	EA00283	半導體製程 II	Semiconductor Manufacturing Technology II	2	2	3	3	0	
	EA00173	半導體元件	Physics and Technology of Semiconductor Devices	2	2	3	3	0	
	EA00250	單晶片應用設計	Single-chip application design	2	2	3	3	0	
	EA00191	作業系統	Operation System	2	2	3	3	0	
	EA00139	機率與統計	Probabilities and Statistics	2	2	3	3	0	
	EA00305	超大型積體電路設計實務	VLSI Design practice	2	2	1	1	0	
	EA00320	單晶片應用設計實務	Microcontroller Application Practice	2	2	1	1	0	
	EA00187	控制系統	Control System	2	2	3	3	0	
	EA00330	定翼機基礎實務	Wing Machine Basic Practice	2	2	2	2	0	
common course-elective	PE00343	體育V	Physical Education V	3	1	1	2	0	
dep. course-elective	EA00032	全面品質管理 I	Total Quality Management I	3	1	3	3	0	
	EA00216	創意設計	Creative Design	3	1	3	3	0	
	EA00271	顯示器驅動原理與實務導論	Introduction to Principle and Practice of Display Drivers	3	1	3	3	0	
	EA00244	數值方法與電腦應用	Numerical Methods and Computer Applications	3	1	3	3	0	
	EA00272	放大器應用與實務導論	Introduction to Application and Practice of Amplifiers	3	1	3	3	0	
	EA00285	通訊電子學	Communication Electronics	3	1	3	3	0	
	EA00130	數位積體電路	Digital Integrated Circuits	3	1	3	3	0	
	EA00205	感測器理論與應用	Theory and Applications of Biosensor	3	1	3	3	0	
	EA00299	嵌入式系統	Embedded system	3	1	3	3	0	

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	EA00242	工程應用程式設計	Applied Engineering Programming	3	1	3	3	0	
	EA00067	訊號與系統	Signals and Systems	3	1	3	3	0	
	EA00312	嵌入式系統設計實務	Embedded System Design Practice	3	1	1	1	0	
	EA00331	飛行控制程式設計	Flight Controller Programming	3	1	3	3	0	
common course-el ective	PE00344	體育VI	Physical Education VI	3	2	1	2	0	
dep. course-el ective	EA00241	商用英文	Business English	3	2	2	2	0	
	EA00035	行銷學	Marketing	3	2	3	3	0	
	EA00033	全面品質管理II	Total Quality Management II	3	2	3	3	0	
	EA00144	離散數學	Discrete Mathematics	3	2	3	3	0	
	EA00286	專利概論	Introduction to Patents	3	2	3	3	0	
	EA00290	嵌入式軟體設計	Embedded Software Design	3	2	3	3	0	
	EA00072	高頻電路設計	High Frequency Circuits Design	3	2	3	3	0	
	EA00148	類比積體電路	Analog Integrated Circuit	3	2	3	3	0	
	EA00280	行動裝置程式設計	Programming for Mobile Devices	3	2	3	3	0	
	EA00193	通訊系統	Communication System	3	2	3	3	0	
	EA00270	圖控介面與程式設計	Graphic Control Interface and Programming	3	2	3	3	0	
	EA00315	行動裝置程式設計實務	Programming for Mobile Devices Practice	3	2	1	1	0	
	EA00332	地面站軟體開發	Ground Station Programming	3	2	2	2	0	
	EA00333	空拍攝影學	Aerial Photography	3	2	3	3	0	
common course-el ective	LE00290	進階語言I	Advanced Foreign Languages (Part I)	4	1	2	2	0	
	PE00225	體育VII	Physical Education VII	4	1	1	2	0	
dep. course-el ective	EA00248	科技管理	Technology Management	4	1	3	3	0	
	EA00036	作業研究	Operations Research	4	1	3	3	0	
	EA00095	策略管理	Strategic Management	4	1	3	3	0	
	EA00215	積體電路應用設計	Application Design of Integrated-Circuits	4	1	3	3	0	
	EA00300	數位訊號處理	Digital signal processing	4	1	3	3	0	
	EA00281	機器人設計導論	Introduction to Robot Design	4	1	3	3	0	
	EA00301	數位影像處理	Digital image processing	4	1	3	3	0	
	EA00292	企業實習I	Enterprise Internship I	4	1	3	0	9	
	EA00293	企業實習II	Enterprise Internship II	4	1	3	0	9	

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dep. course-elective	EA00294	企業實習 III	Enterprise Internship III	4	1	3	0	9	
	EA00277	半導體測試圖案設計	Semiconductor Test Pattern Design	4	1	3	3	0	
	EA00140	機電整合	Introduction to Mechatronics	4	1	3	3	0	
common course-elective	LE00291	進階語言 II	Advanced Foreign Languages (Part II)	4	2	2	2	0	
	PE00227	體育 VIII	Physical Education VIII	4	2	1	2	0	
dep. course-elective	EA00245	光電導論	Introduction to Optical Electronics	4	2	3	3	0	
	EA00197	生物感測系統	Biosensor Systems	4	2	3	3	0	
	EA00040	系統晶片導論	Introduction to System-On-Chip	4	2	3	3	0	
	EA00037	技術管理	Technical Management	4	2	3	3	0	
	EA00209	專案管理	Project Management	4	2	3	3	0	
	EA00291	應用電磁學	Applied Electromagnetics	4	2	3	3	0	
	EA00295	企業實習 IV	Enterprise Internship IV	4	2	3	0	9	
	EA00296	企業實習 V	Enterprise Internship V	4	2	3	0	9	
	EA00297	企業實習 VI	Enterprise Internship VI	4	2	3	0	9	
obligatory 77 elective course 51 credit sum 128									