

固態與積體 電路領域 Solid state and integrated circuit										磁性科技與應用 Magnetic technology and applications			3	3	大型語言模型與智慧應用實務 Large Language Models and Practical Intelligent			3	3	
	材料科學與工程導論(二) Introduction to Materials Science and Engineering II			3	3	微處理器系統與實驗 Microprocessor Systems and Experiments	3	3		FPGA系統設計實務 FPGA System Design and Practice	3	3			薄膜工程 Thin Film Engineering	3	3			
						單晶片原理應用 Pinciples and applications of single chip microcomputer lab	3	3		超大型積體電路設計導論 Introduction to VLSI Design	3	3			射頻積體電路與模擬 Simulation and Design of Radio Frequency Integrated Circuits	3	3			
						固態分析技術 Solid-State Analysis Techniques			3	3	微波系統導論 RF Microwave Wireless Systems	3	3		模式化通訊IC設計 Model-based Communication IC Design	3	3			
						硬體描述語言程式設計與模擬 System Design Using Hardware Description Language			3	3	積體電路模擬實務 Integrated Circuits Design Practice	2	2		半導體製程技術 Semiconductor Technology	3	3			
						電腦輔助電路設計 Computer-Aided Design			3	3	高速電路板設計 High-Speed PCB Design			3	3	射頻無線系統與應用 Rf Wireless Systems and Applications	3	3		
											前瞻性類比積體電路佈局設計 Advanced Analog IC Layout Design and Laboratory			3	3	超大型積體電路設計 VLSI Design			3	3
											感測器實務 Practice and Applications of			3	3	表面工程 Surface Engineering			3	3
																太陽能技術 Technology of solar energy			3	3
																高頻電路佈局與模擬 Layout and Simulation of High Frequency Circuits			3	3
																類比積體電路設計與模擬 Analog Integrated Circuits: Design and Simulation			3	3
																半導體元件及物理 Semiconductor Components and Physical			3	3
																新能源技術 New Energy Technologies			3	3
專業選修總計 Subtotal		2	14			15	18			34	41					51	54		229	
學期總計 Subtotal		18	24			25	31			45	43					53	54			

備註/Notes:

一、畢業總學分132學分，共同必修 24學分[含通識課程16學分（由通識中心規劃）]，專業必修（含院必修及系必修）64學分，選修學分包含12學分可選修非本系所開設之課程，且須通過「本校學生英文及資訊能力畢業門檻及輔導辦法」相關規定始可畢業。
The total number of credits for graduation is 132 credits, General Required Courses: 24 credits [including General Education: 16 credits(planned by general education)], Professional Required: 64 credits (including College Required and Department Required Courses), and there are 12 credits of elective courses that are not offered by this department, Students graduation requirements follow the university’s "Graduation Threshold and Counseling Guidelines for English and Information Competency" .

二、已修習通訊原理方可選修數位通訊導論、數位通訊系統、通訊實驗。已修習信號與系統方可選修數位信號處理概論。已修習微積分(一)方可修習微積分(二)。
Completion of the course on Principles of Communications is a prerequisite for taking Introduction to Digital Communications, Digital Communication Systems, and Communication Laboratory.
Completion of the Signals and Systems is a prerequisite for taking Introduction to Digital Signal Processing. Calculus I is a prerequisite for Calculus II.

三、「專題製作（一）、(二)、(三)」得抵修「專業實習（一）、(二)、(三)」；專題研究（一）得抵修「專題製作(三)」。
"Senior Project I, II and III " can be offset by "Project Production I, II and III "；"Directed Research I can be offset by " Senior Project III".

四、學士班四年級課程與碩士班課程名稱相同時，課程同時適用碩士班。
When the course names in the fourth-year undergraduate curriculum match those in the master's program, the course is applicable to the master's program at the same time.

五、表列選修科目為預定科目，將視實際需要而調整。
Elective courses listed are tentative and may be adjusted according to actual circumstances.