

逢甲大學 通訊工程學系 必選修科目表(114學年度入學學生適用)

Required/Elective Courses for Department of Communications Engineering, Feng Chia University (Applicable to Students Admitted in the Academic Year 2025)

科目名稱 Course	一 1st.		科目名稱 Course	二 2nd.		科目名稱 Course	三 3rd.		科目名稱 Course	四 4th.		科目名稱 Course	五 5th.	
	1	2		1	2		1	2		1	2		1	2
必修科目 Required														
GEK2000 科學與人文的對話 THE DIALOGUE BETWEEN SCIENCE AND HUMANITIES	2		COME2000 工程數學(一) ENGINEERING MATHEMATICS(1)	3		COME3001 通訊系統 COMMUNICATION SYSTEMS	3		COME4927 專題研究(二) SPECIAL TOPICS STUDY (2)	1				
CHIN1065 中文思辨與表達(一) CRITICAL THINKING AND EXPRESSION IN CHINESE(1)	2		ENGL1046 大學精進英文(一) Advanced English(1)	2		COME3002 通訊系統實習 COMMUNICATION SYSTEM LAB.	1							
ENGL1006 大學基礎英文(一) GENERAL ENGLISH (1)	2		COME2002 電子學(一) ELECTRONICS (1)	3		COME3000 電子學(三) ELECTRONICS (3)	3							
IEE1000 計算機概論(一) INTRODUCTION TO COMPUTER(1)	3		COME2005 電子學實驗(一) ELECTRONICS LAB.(1)	1		COME4926 專題研究(一) SPECIAL TOPICS STUDY (1)		1						
IEE1002 計算機概論實習(一) THE PROGRAMMING LABORATORY(1)	1		COME2008 電路學(一) CIRCUIT THEORY(1)	3		COME3003 數位通訊系統 DIGITAL COMMUNICATIONS		3						
MILT1035 國防科技 NATIONAL DEFENSE SCIENCE AND TECHNOLOGY	1		COME2012 微處理機系統 MICROPROCESSOR SYSTEMS	3		COME3004 數位通訊系統實習 DIGITAL COMMUNICATION SYSTEMS PRACTICAL TRAINING		1						

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[illegible]

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MATH1006 微積分(二) CALCULUS(2)		3												
IEE1006 邏輯設計 LOGIC DESIGN		3												
IEE1007 邏輯設計實習 LOGIC DESIGN LAB.		1												
選 修 科 目 Elective														
			COME2100 5G發展與應用概論 INTRODUCTION TO 5G DEVELOPMENT AND APPLICATIONS	3		COME3034 Android 程式設計 ANDROID PROGRAMMING	3		COME4038 AI 與資料科學概論 INTRODUCTION OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	3				
			COME2034 Python程式設計 PROGRAMMING WITH PYTHON	3		COME3045 半導體製程、元件模型與電 路設計概論 INTRODUCTION TO SEMICONDUCTOR DEVICES, PROCESSES AND	3		COME5003 人工智慧控制實務 ARTIFICIAL INTELLIGENCE INTERFACE CONTROL LABORATORY	3				

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			COME2028 向量分析 VECTOR ANALYSIS	3		COME3033 作業系統 OPERATING SYSTEMS	3		COME4031 人工智慧導論 INTRODUCTION TO ARTIFICIAL INTELLIGENCE	3				
			COME3030 JAVA程式語言 JAVA PROGRAMMING		3	COME2033 科技英文 ENGLISH FOR TECHNOLOGY	3		IEE5024 半導體量測技術 PROBING TECHNOLOGIES ON SEMICONDUCTORS	3				
			COME2029 系統程式 SYSTEM PROGRAMMING		3	COME4949 校外專業實習(暑一) OFF-CAMPUS INTERNSHIP (SUMMER 1)	1		COME4002 行動通訊 MOBILE COMMUNICATIONS	3				
			COME4029 物聯網應用實務 PRACTICAL APPLICATIONS OF INTERNET OF THINGS		3	COME4950 校外專業實習(暑二) OFF-CAMPUS INTERNSHIP (SUMMER 2)	1		COME5001 行動網路應用 APPLICATIONS OF MOBILE NETWORKS	3				
						COME4951 校外專業實習(暑三) OFF-CAMPUS INTERNSHIP(SUMMER 3)	1		COME4004 即時作業系統 REAL -TIME OPERATING SYSTEMS	3				
						COME4952 校外專業實習(暑四) OFF-CAMPUS INTERNSHIP(SUMMER 4)	1		COME4037 信號處理專論 SPECIFIC TOPICS ON SIGNAL PROCESSING	3				
						COME3005 高頻及微波電路概論 INTRODUCTION TO RADIO FREQUENCY AND MICROWAVE CIRCUIT	3		COME4007 音視訊處理 AUDIO AND VIDEO SIGNAL PROCESSING	3				

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						COME3026 通訊協定與設計 DESIGN AND IMPLEMENTATION OF COMMUNICATION PROTOCOLS	3		COME4033 射頻技術專論 SPECIAL ISSUE ON RADIO FREQUENCY TECHNIQUES	3				
						COME3043 硬體描述語言 HARDWARE DESCRIPTION LANGUAGE	3		COME4028 射頻通訊積體電路設計 RF COMMUNICATION INTEGRATED CIRCUITS DESIGN	3				
						COME4026 雲端計算 CLOUD COMPUTING	3		COME4003 通訊科技專論 SPECIAL ISSUE ON COMMUNICATION TECHNIQUE	3				
						COME2020 資料結構與演算法 DATA STRUCTURES AND ALGORITHMS	3		IEE3011 智慧機器人概論與實作 INTRODUCTION AND IMPLEMENTATION OF INTELLIGENT ROBOTS	3				
						COME3012 資料壓縮 DATA COMPRESSION	3		IEE3012 智慧辨識檢測與應用 APPLICATIONS OF INTELLIGENT RECOGNITION AND OBJECTS DETECTION	3				
						COME4016 資訊與網路安全 INFORMATION AND NETWORK SECURITY	3		COME4035 無線通訊電腦模擬實習 PRACTICAL TRAINING FOR COMPUTER SIMULATION OF WIRELESS	1				
						COME2011 電磁學(二) ELECTROMAGNETICS(2)	3		COME4014 電磁相容實習 EXPERIMENTS FOR ELECTROMAGNETIC COMPATIBILITY	1				

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						COME3042 網路技術專論 SPECIFIC TOPICS ON NETWORK TECHNOLOGY	3		COME4013 電磁相容導論 INTRODUCTION TO ELECTROMAGNETIC COMPATIBILITY	3				
						COME3007 數位信號處理 DIGITAL SIGNAL PROCESSING	3		COME4006 數位信號處理晶片應用 APPLICATIONS ON DSP CHIPS	3				
						COME3008 數位信號處理實驗 DIGITAL SIGNAL PROCESSING LAB.	1		COME4010 衛星通訊 SATELLITE COMMUNICATIONS	3				
						COME3037 物聯網網路設計 IOT NETWORK DESIGN	3		COME3015 隨機信號分析 RANDOM SIGNAL ANALYSIS	3				
						COME3044 前瞻網路技術導論 INTRODUCTION TO ADVANCED NETWORK TECHNOLOGY	3		COME4039 5G專網與應用 5G CORE NETWORKS AND APPLICATIONS	3				
						COME2017 計算機網路實習 COMPUTER NETWORKS LABORATORY	1		COME5002 人工智慧專題實務 PROJECT PRACTICE OF ARTIFICIAL INTELLIGENCE	3				
						COME3032 校外實習導論 INTRODUCTION TO OFF-CAMPUS INTERNSHIP	1		COME4015 天線工程導論 INTRODUCTION TO ANTENNA ENGINEERING	3				

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						COME3019 消息理論與編碼 INFORMATION THEORY AND CODING		3	COME4011 多媒體通訊 MULTI-MEDIA COMMUNICATION		3			
						COME3041 高速訊號傳輸導論 INTRODUCTION TO HIGH SPEED SIGNAL TRANSMISSION		3	COME4034 前瞻射頻技術導論 INTRODUCTION TO ADVANCED RADIO FREQUENCY TECHNIQUES		3			
						COME3014 高頻及微波電路實習 EXPERIMENT TO RADIO FREQUENCY AND MICROWAVE CIRCUIT		1	COME4032 射頻微機電系統概論 INTRODUCTION TO RADIO FREQUENCY MICROELECTROMECHANIC SYSTEMS		3			
						COME3006 高頻電路設計 RADIO FREQUENCY CIRCUIT DESIGN		3	COME4027 校外專業實習 OFF-CAMPUS INTERNSHIP		9			
						COME3028 通訊電子學 COMMUNICATION ELECTRONICS		3	COME4036 深度學習概論 INTRODUCTION OF DEEP LEARNING		3			
						COME3017 嵌入式系統設計 EMBEDDED SYSTEM DESIGN		3	COME4012 通訊前瞻工程導論 INTRODUCTION TO ADVANCE COMMUNICATION ENGINEERING		3			
						COME3040 無線網路系統與應用 WIRELESS NETWORK SYSTEMS AND APPLICATIONS		3	COME6076 無人機網路與通訊 UAV NETWORKS AND COMMUNICATIONS		3			

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						COME3029 進階網路實務 ADVANCED AND PRACTICAL NETWORKING		3	IEE3013 感測與定位整合平台 SENSING AND POSITIONING INTEGRATION PLATFORM		3			
						COME4001 電磁波 ELECTROMAGNETIC WAVE		3						
						COME3016 網路程式設計 NETWORK PROGRAMMING		3						
						COME3010 影像處理導論 INTRODUCTION TO IMAGE PROCESSING		3						
						COME3009 數位濾波器 DIGITAL FILTERS		3						
						COME2032 機率模型與應用 PROBABILITY MODELS AND APPLICATIONS		3						
						COME3046 機器學習 MACHINE LEARNING		3						

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- (1)畢業學分：【130】學分
 (2)本系必修：【73】學分
 (3)本系選修：至少【29】學分
 (4)外系選修：至少【0】學分
 (5)通識基礎課程：【16】學分
 (6)通識選修課程：【12】學分

說明：

一、通識課程修課規定：

(一)通識基礎必修課程16學分：

1. 中文思辨與表達4學分。

2. 英文8學分：大學基礎英文4學分、大學精進英文4學分。(外文系、國科管院除外)

3. 核心必修4學分：【現代公民與社會實踐】及【科學與人文的對話】均為單學期2學分之課程。

(二)通識選修課程12學分：

分為【全球氣候變遷與永續發展】、【人文藝術與社會經典教育】、【世界格局與歷史地理視野】及【科技知識原理與趨勢浪潮】等四大領域課程，合計修畢12學分始符合規定。跨領域設計學院、社會創新學院、創能學院、圖書館 MOOCs、各學院之跨域專題課程得申請認列上述四大領域課程，並以6學分為上限，但同一課程不得重複認列(相關認列課程以網路公告為主)。

(三)通識共同必修課程3學分：(不計入畢業學分)

1. 全民國防教育軍事訓練。一年級必修課程(國防科技)1學分，以學院別劃分為原則，第一學期或第二學期均開設課程。

2. 體育。一年級必修2學分。

3. 班級活動。

二、軍訓、體育選修科目畢業學分採計規定：

(一)軍訓：全民國防教育選修課程為2學分，學生至多修習四門(國際情勢、全民國防、防衛動員、國防政策)，列入畢業之學分數請參考本系修業須知。

(二)體育：選修課程是否計分及其他修課規定，請參考本系修業須知。

三、有關修習非本系至少9學分及其他修課規定，請參考本系修業須知。

四、外籍生經國際處審核後，送相關單位辦理免修全部軍訓課程。

(1)Graduation credits : 【130】 credits

(2)Required credits in this department : 【73】 credits

(3)Elective credits in this department : At least 【29】 credits

(4)Elective credits from other departments : At least 【0】 credits

(5)General education foundation course credits : 【16】 credits

(6)General education elective course credits : 【12】 credits

◆Regulations for General Education Course Selection

(1) Foundation Required Courses 16 Credits:

■ Critical Thinking and Expression In Chinese 4 Credits.

■ English 8 Credits: General English 4 Credits, Advanced English 4 Credits. (Excluding Department of Foreign Languages and Literature, DFLL and International School of Technology and Management, ISTM)

■ Required Core Course 4 Credits: "Modern Citizenship and Social Practice" and "The Dialogue between Science and Humanities" are both one-semester, 2-credit courses.

(2) Elective Courses 12 Credits:

These courses are divided into four major domains: "Global climate change and sustainable development. GEG," "Humanities & arts and classical education of social science. GEH," "World patterns and perspectives of history & geography. GEW," and "Knowledge, principles and trends of science and technology. GEK." Completion of 12 credits in total is required to meet the regulations. Interdisciplinary thematic courses of D.School, S.School, i.School, Library MOOCs, and each college can be recognized as the above four major domains with a limit of 6 credits, but the same course cannot be recognized repeatedly. Please refer to the online announcement for further details.

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<p>(3) Common Required Courses 3 Credits: (Not counted in graduation credits)</p> <p>■ National Defense Education and Military Training (National Defense Science And Technology) : This is a one-credit, mandatory course for freshmen offered in both the first semester and the second semester based on college divisions.</p> <p>■ Physical Education: This is a 2-credit, mandatory for freshmen.</p> <p>■ Class Activities.</p> <p>◆Military Training and Physical Education Elective Course Graduation Credit Calculation Regulations:</p> <p>(1) Military Training: “Civil Defense Education” is a two-credit elective course. Students may take up to four courses, including International Situation, Civil Defense, Defense Mobilization, National Defense Politics. Please refer to the department’s academic regulations for the inclusion of credits towards graduation.</p> <p>(2) Physical Education: Please refer to the department’s academic regulations and other enrollment requirements for whether physical education elective courses are counted as credits.</p> <p>◆Foreign students, after reviewed by the Office of International Affairs, are exempted from taking all military training courses after being sent to relevant units for processing.</p> <p>◆Regarding the completion of at least 9 credits from courses outside the department and other degree programs requirements, please refer to the department’s academic regulations.</p>														

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