

# 逢甲大學 資訊工程學系 必選修科目表(114學年度入學學生適用)

Required/Elective Courses for Department of Information Engineering and Computer Science, 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.	
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必修科目 Required														
GEK2000 科學與人文的對話 THE DIALOGUE BETWEEN SCIENCE AND HUMANITIES	2		ENGL1046 大學精進英文(一) Advanced English(1)	2		IECS3001 作業系統(一) OPERATING SYSTEMS (1)	3		IECS4927 專題研究(二) SPECIAL TOPICS STUDY (2)	2				
ATHL1003 體育(一) PHYSICAL EDUCATION(1)	1		IECS2004 通訊與網路概論 INTRODUCTION TO NETWORK COMMUNICATION	3		IECS2012 微處理機系統 MICROPROCESSOR SYSTEMS	3							
CHIN1065 中文思辨與表達(一) CRITICAL THINKING AND EXPRESSION IN CHINESE(1)	2		IECS2061 資料結構實習 DATA STRUCTURE LABORATORY	1		IECS2013 微處理機系統實習 THE EXPERIMENT OF MICRO-PROCESSOR SYSTEM	1							
ENGL1006 大學基礎英文(一) GENERAL ENGLISH (1)	2		IECS2001 資料結構 DATA STRUCTURE	3		IECS3003 計算機結構學 COMPUTER ARCHITECTURE		3						
MILT1035 國防科技 NATIONAL DEFENSE SCIENCE AND TECHNOLOGY	1		IECS2007 離散數學 DISCRETE MATHEMATICS	3		IECS3002 計算機演算法 COMPUTER ALGORITHMS		3						
IECS1006 程式設計(I) COMPUTER PROGRAMMING(1)	2		ENGL1054 大學精進英文(二) Advanced English(2)		2	IECS4926 專題研究(一) SPECIAL TOPICS STUDY (1)		2						

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IEE1005 線性代數 LINEAR ALGEBRA		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														
			IECS2015 d. 工程數學 ENGINEERING MATHEMATICS	3		IEE3017 d. Python程式設計 PROGRAMMING WITH PYTHON	2		IECS4079 d. 人工智慧的產業應用 INDUSTRIAL APPLICATIONS OF ARTIFICIAL INTELLIGENCE	2				
			IECS3058 d. 使用者經驗設計 USER EXPERIENCE DESIGN	3		IECS3046 c. 軟體工程開發實務 SOFTWARE ENGINEERING PRACTICES	3		IECS4072 d. 生物資訊概論 INTRODUCTION TO BIOINFORMATICS	3				

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			IECS2073 c. 物件導向設計 OBJECT-ORIENTED DESIGN	2		IECS3045 d. 軟體測試 SOFTWARE TESTING	3		IECS3063 d. 自然語言處理實務 PRACTICE FOR NATURAL LANGUAGE PROCESSING	3				
			IECS2022 c. 物件導向設計實習 OBJECT-ORIENTED DESIGN LABORATORY	1		IECS3049 d. 資料科學實務 DATA SCIENCE PRACTICES	3		IEE5016 d. 系統思維與統計應用 SYSTEM THINKING AND APPLIED STATISTICS	3				
			IECS3052 c. 密碼學 CRYPTOGRAPHY	3		IECS3047 d. 資料探勘導論 INTRODUCTION TO DATA MINING	3		IECS4954 d. 專題產業實習(一) PROJECT-COOPERATIVE INDUSTRY INTERNSHIP(1)	3				
			IECS2002 c. 電子學 ELECTRONICS	3		IECS4052 c. 資訊與網路安全 INFORMATION AND NETWORK SECURITY	3		IECS4955 d. 專題產業實習(二) PROJECT-COOPERATIVE INDUSTRY INTERNSHIP(2)	3				
			IECS2005 c. 電子學實驗 ELECTRONICS LAB.	1		IECS3042 c. 網路程式設計 NETWORK PROGRAMMING	2		IECS4956 d. 專題產業實習(三) PROJECT-COOPERATIVE INDUSTRY INTERNSHIP(3)	3				
			IECS2006 d. UNIX應用與實務 UNIX APPLICATIONS AND PRACTICES		2	IECS3044 c. 網路程式設計實習 NETWORK PROGRAMMING LABORATORY	1		IECS4957 d. 專題產業實習(四) PROJECT-COOPERATIVE INDUSTRY INTERNSHIP(4)	2				
			IECS2072 d. Web程式設計 WEB PROGRAMMING		3	IECS4051 d. 寬頻網路 BROADBAND NETWORK	3		IEE6005 d. 深度學習 DEEP LEARNING	3				

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			IECS2041 d. 互連網路 INTERCONNECTED NETWORKS		3	IECS4011 d. 數位影像處理 DIGITAL IMAGE PROCESSING	3		IECS4938 d. 產業實習導論 INTRODUCTION TO INDUSTRY INTERNSHIP	1				
			IECS2027 d. 多媒體系統 MULTI-MEDIA SYSTEMS		3	IECS3011 c. 編譯器 COMPILER	3		IECS4045 d. 無線網路系統 IEEE802 WIRELESS SYSTEMS	3				
			IECS2011 c. 系統分析與設計 INFORMATION SYSTEM ANALYSIS & DESIGN		3	IECS2075 d. 人工智慧自然語言導論 INTRODUCTION TO NATURAL LANGUAGE AND ARTIFICIAL INTELLIGENCE		3	IECS4075 d. 資安韌性與社會實踐 RESILIENCE IN CYBERSECURITY AND SOCIAL PRACTICE	3				
			IECS3053 d. 組合數學 COMBINATIONAL MATHEMATICS		3	IECS3059 c. 人工智慧導論 INTRODUCTION TO ARTIFICIAL INTELLIGENCE		3	IECS4057 d. 管理資訊系統 MANAGEMENT INFORMATION SYSTEMS	3				
			IECS2026 d. 電子商務安全 E-COMMERCE SECURITY		3	IECS3060 d. 地理資訊系統 GEOGRAPHIC INFORMATION SYSTEM		3	IECS4941 d. 校外專業實習(一) OFF-CAMPUS INTERNSHIP(1)		3			
			IECS2053 c. 數位系統設計 DIGITAL SYSTEM DESIGN		3	IECS3074 d. 安全程式設計 SECURE CODING		3	IECS4942 d. 校外專業實習(二) OFF-CAMPUS INTERNSHIP(2)		3			
			IECS2014 c. 數位系統設計實驗 DIGITAL SYSTEM DESIGN LAB		1	IECS2024 d. 行動應用程式開發 MOBILE APPLICATION PROGRAMMING		3	IECS4943 d. 校外專業實習(三) OFF-CAMPUS INTERNSHIP (3)		3			

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			IECS2033 d. 數位信號處理導論 INTRODUCTION TO DIGITAL SIGNAL PROCESSING		3	IECS3012 d. 作業系統(二) OPERATING SYSTEMS(2)		3	IECS4944 d. 校外專業實習(四) OFF-CAMPUS INTERNSHIP (4)		2			
						IECS3071 d. 系統安全 SYSTEM SECURITY		3	IECS4073 d. 智慧物聯網實務應用 PRACTICAL APPLICATION OF ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS		3			
						IEE5015 d. 系統思維與機率應用 SYSTEM THINKING AND APPLIED PROBABILITY		3	IECS4071 d. 程式設計與問題解決 PROBLEM SOLVING PROGRAMMING		2			
						IECS4947 d. 校外專業實習(寒) OFF-CAMPUS INTERNSHIP(WINTER)		1	IECS4076 d. 網路安全實務與社會 PUBLIC INTEREST CYBERSECURITY PRACTICES AND SOCIETY		3			
						IECS4949 d. 校外專業實習(暑一) OFF-CAMPUS INTERNSHIP (SUMMER 1)		1						
						IECS4950 d. 校外專業實習(暑二) OFF-CAMPUS INTERNSHIP (SUMMER 2)		1						
						IECS4951 d. 校外專業實習(暑三) OFF-CAMPUS INTERNSHIP(SUMMER 3)		1						

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						IECS4952 d. 校外專業實習(暑四) OFF-CAMPUS INTERNSHIP(SUMMER 4)		1						
						IECS3050 d. 軟體框架設計 SOFTWARE FRAMEWORK DESIGN		3						
						IECS3048 d. 嵌入式系統 EMBEDDED SYSTEMS		3						
						IECS3021 c. 程式語言 PROGRAMMING LANGUAGE		3						
						IECS3034 d. 超大型積體電路設計導論 INTRODUCTION TO VLSI CIRCUIT DESIGN		3						
						IECS3029 d. 雲端應用系統開發 CLOUD APPLICATION SYSTEM DEVELOPMENT		3						
						IECS4074 d. 資訊安全管理 INFORMATION SECURITY MANAGEMENT		3						



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						IECS3062 d. 資訊實務案例探討 CASE STUDY ON PRACTICAL INFORMATION SYSTEM		2						
						IECS3061 d. 電腦視覺與擴增實境 COMPUTER VISION AND AUGMENTED REALITY		3						

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- (1)畢業學分：【128】學分  
(2)本系必修：【63】學分  
(3)本系選修：至少【28】學分  
(4)外系選修：至少【9】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 : 【128】 credits

(2)Required credits in this department : 【63】 credits

(3)Elective credits in this department : At least 【28】 credits

(4)Elective credits from other departments : At least 【9】 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, DFL 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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