逢甲大學 資訊工程, 工學學士 必選修科目表(113學年度入學學生適用)

Required/Elective Courses for Computer Science, B.S., Feng Chia University (Applicable to Students Admitted in the Academic Year 2024)

必修 Required　　　　　　　　**應取得 50學分 / Should obtain 50 credits**

一年級 1st.

第1學期 Semester 1			第2學期 Semester 2				
課程編碼 CourseID	科目名稱 Course name	學分 credit	課程編碼 CourseID	科目名稱 Course name	學分 credit		
ISTM020	英文演講 PUBLIC SPEAKING FOR NONNATIVE SPEAKERS	3	ISTM001	英文寫作 ENGLISH WRITING	3		
ISTM114	解析幾何與微積分I ANALYTIC GEOMETRY AND CALCULUS I	4	ISTM118	解析幾何與微積分II ANALYTIC GEOMETRY AND CALCULUS II	4		
ISTM115	力學 MODERN MECHANICS	4	ISTM122	基礎電磁學 FUNDAMENTALS OF ELECTROMAGNETISM	4		
ISTM116	C結構化程式設計 PROGRAMMING APPLICATIONS FOR ENGINEERS	3	ISTM143	創新專題(2) INNOVATION PROJECT (2)	3		
ISTM142	創新專題(1) INNOVATION PROJECT (1)	3	ISTM160	計算機程式設計概論實習 INTRODUCTION TO SOFTWARE LAB	1		
			ISTM161	計算機程式設計概論 INTRODUCTION TO COMPUTER PROGRAMMING	3		
			ISTM216	線性代數 LINEAR ALGEBRA	3		

二年級 2nd.

第1學期 Semester 1			第2學期 Semester 2				
課程編碼 CourseID	科目名稱 Course name	學分 credit	課程編碼 CourseID	科目名稱 Course name	學分 credit		
ISTM255	資料結構 DATA STRUCTURE	3	ISTM257	計算機硬體結構 MACHINE STRUCTURES	3		

CourseID	Course name	credit						
ISTM256	計算機科學之離散數學 DISCRETE MATHEMATICAL STRUCTURES FOR COMPUTER SCIENCE	3						
ISTM409	批判思考 CRITICAL THINKING	3						

選修 Elective　　　　　　　　至少取得 20學分 / At least obtain 20 credits

一年級 1st.

第1學期 Semester 1			第2學期 Semester 2				
課程編碼 CourseID	科目名稱 Course name	學分 credit	課程編碼 CourseID	科目名稱 Course name	學分 credit		
ISTM133	亞洲藝術 ARTS OF ASIA	3	ISTM163	邏輯設計 LOGIC DESIGN	3		
ISTM166	Python程式設計導論 INTRODUCTION TO PYTHON PROGRAMMING	3	ISTM164	人工智慧導論 INTRODUCTION TO ARTIFICIAL INTELLIGENCE	3		

二年級 2nd.

第1學期 Semester 1			第2學期 Semester 2				
課程編碼 CourseID	科目名稱 Course name	學分 credit	課程編碼 CourseID	科目名稱 Course name	學分 credit		
ISTM136	亞裔美國史(一) ASIAN AMERICANS IN U.S. HISTORY(1)	3	ISTM110	個體經濟學 MICROECONOMICS	4		
ISTM260	雲端運算概論 INTRODUCTION TO CLOUD COMPUTING	3	ISTM137	亞裔美國史(二) ASIAN AMERICANS IN U.S. HISTORY(2)	3		
ISTM266	第一學期西班牙文 FIRST SEMESTER SPANISH	4	ISTM261	密碼學概論 INTRODUCTION TO CRYPTOGRAPHY	3		
ISTM271	網路概論 INTRODUCTION TO COMPUTER NETWORKS	3	ISTM262	資料科學實務 DATA SCIENCE PRACTICES	3		

ISTM272	網頁設計與開發 INTRODUCTION TO WEB DESIGN	3	ISTM267	第二學期西班牙文 SECOND SEMESTER SPANISH	4		
ISTM285	電腦科學概論 INTRODUCTION TO COMPUTER SCIENCE	3	ISTM282	資料庫系統 DATABASE SYSTEMS	3		
ISTM286	物件導向設計與實作 OBJECT-ORIENTED DESIGN AND IMPLEMENTATIOR	3	ISTM283	機率與統計 PROBABILITY AND STATISTICS	3		

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		ISTM284	WEB-BASED程式設計 WEB-BASED PROGRAMMING	3		

應修畢業學分：128 學分		Graduation credits：128 credits
通識基礎課程： 0 學分		General education foundation course credits： 0 credits
通識選修課程： 0 學分		General education elective course credits： 0 credits
主修必修科目： 50 學分		Major required course credits： 50 credits
主修選修科目： 20 學分		Major elective course credits： 20 credits
自由選修科目： 0 學分		Free elective course credits： 0 credits

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。

◆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.

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(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.

(3) Common Required Courses 3 Credits: (Not counted in graduation credits)

■ 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.

■ Physical Education: This is a 2-credit, mandatory for freshmen.

■ Class Activities.

◆Military Training and Physical Education Elective Course Graduation Credit Calculation Regulations:

(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.

(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.

◆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.

◆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.