

逢甲大學 電機工程，工學學士 必選修科目表(113學年度入學學生適用)

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

必修 Required

應取得 63學分 / Should obtain 63 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 | | | |
| ISTM117 | 普通化學(一) GENERAL CHEMISTRY(1) | 4 | ISTM216 | 線性代數 LINEAR ALGEBRA | 3 | | | |
| ISTM142 | 創新專題(1) INNOVATION PROJECT (1) | 3 | | | | | | |
| ISTM158 | 普通化學(一)研討課 GENERAL CHEMISTRY (1) SEMINAR | 1 | | | | | | |
| 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 | | | |
| ISTM210 | 多變元微積分 MULTIVARIATE CALCULUS | 4 | ISTM119 | MATLAB程式設計 INTRODUCTION TO MATLAB PROGRAMMING | 2 | | | |

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|---------|--|---|---------|---|---|--|--|--|
| ISTM239 | 波動力學、熱力學和光學 WAVE, HEAT&LIGHT | 4 | ISTM215 | 常微分方程 ORDINARY DIFFERENTIAL EQUATION | 3 | | | |
| ISTM249 | 電機工程基礎(一) ELECTRICAL ENGINEERING FUNDAMENTALS I | 3 | ISTM250 | 電機工程基礎(二) ELECTRICAL ENGINEERING FUNDAMENTALS II | 3 | | | |
| ISTM251 | 電機工程基礎實驗(一) ELECTRICAL ENGINEERING FUNDAMENTALS I LAB | 1 | ISTM252 | 電機工程基礎實驗(二) ELECTRICAL ENGINEERING FUNDAMENTALS II LAB | 1 | | | |
| ISTM409 | 批判思考 CRITICAL THINKING | 3 | | | | | | |

選修 Elective

至少取得 9學分 / At least obtain 9 credits

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|------------------|--|--------------|------------------|--|--------------|--|--|--|
| 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 | ISTM121 | 高等C程式語言 ADVANCED C PROGRAMMING | 3 | | | |
| ISTM166 | Python程式設計導論 INTRODUCTION TO PYTHON PROGRAMMING | 3 | ISTM163 | 邏輯設計 LOGIC DESIGN | 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 | ISTM137 | 亞裔美國史(二) ASIAN AMERICANS IN U.S. HISTORY(2) | 3 | | | |
| ISTM173 | 美國流行與搖滾音樂史 POP AND ROCK IN THE U.S. | 3 | ISTM253 | Python於資料科學應用 PYTHON FOR DATA SCIENCE | 3 | | | |

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| | | | | | | | | |
|---------|---------------------------------|---|---------|----------------------------------|---|--|--|--|
| ISTM214 | 數位系統設計 DIGITAL SYSTEM DESIGN | 4 | ISTM257 | 計算機硬體結構 MACHINE STRUCTURES | 3 | | | |
| ISTM269 | 初級西班牙文 ELEMENTARY SPANISH | 4 | ISTM268 | 線性系統分析 LINEAR SYSTEM ANALYSIS | 3 | | | |

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| | | | | | | | | |
|---------|---------------------------------------|---|---------|---|---|--|--|--|
| ISTM272 | 網頁設計與開發 INTRODUCTION TO WEB DESIGN | 3 | ISTM453 | 美國與加州政府歷史概況 ESSENTIALS OF U.S. & CALIFORNIA GOVERNMENT | 3 | | | |
|---------|---------------------------------------|---|---------|---|---|--|--|--|

應修畢業學分：128 學分

通識基礎課程： 0 學分

通識選修課程： 0 學分

主修必修科目： 63 學分

主修選修科目： 9 學分

自由選修科目： 0 學分

Graduation credits: 128 credits

General education foundation course credits: 0 credits

General education elective course credits: 0 credits

Major required course credits: 63 credits

Major elective course credits: 9 credits

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.