

112學年度日間部 電子工程系 國際學生產學合作專班課程規劃表

| 學年度 | | 112 | | | | 學年度 | | 113 | | | | 學年度 | | 114 | | | | |
|------------------|------------------|---------------|----|----------|----|-----|--|----------|----|----------|----|-----|--|----------|----|----------|----|--|
| 科目 | | SEP 2023 | | FEB 2024 | | 科目 | | SEP 2024 | | FEB 2025 | | 科目 | | SEP 2025 | | FEB 2026 | | |
| | | 學分 | 時數 | 學分 | 時數 | | | 學分 | 時數 | 學分 | 時數 | | | 學分 | 時數 | 學分 | 時數 | |
| 校 必 修 | 體育 | 1 | 2 | 1 | 2 | | | | | | | | | | | | | |
| | 漢語拼音發音練習 | 1 | 2 | | | | | | | | | | | | | | | |
| | 華語輔導 | 0 | 5 | | | | | | | | | | | | | | | |
| | 華語聽力練習 | 1 | 2 | | | | | | | | | | | | | | | |
| | 華語會話練習 | 1 | 2 | | | | | | | | | | | | | | | |
| | 華語閱讀與理解 | 1 | 2 | | | | | | | | | | | | | | | |
| | 華語寫作練習 | 1 | 2 | | | | | | | | | | | | | | | |
| | 華人文學 | | | 3 | 3 | | | | | | | | | | | | | |
| | 華人文化 | | | 3 | 3 | | | | | | | | | | | | | |
| | 台灣生活與法律 | | | 2 | 2 | | | | | | | | | | | | | |
| 台灣文化 | | | 2 | 2 | | | | | | | | | | | | | | |
| 小計 | 6 | 17 | 11 | 12 | | | | | | | | | | | | | | |
| 院 必 修 | 科技英文(一)(二) | 2 | 2 | 2 | 2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | 小計 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | |
| | 專 業 必 修 | 物理與物理實習(一)(二) | 3 | 3 | 3 | 3 | | | | | | | | | | | | |
| | | 微積分 | 2 | 2 | | | | | | | | | | | | | | |
| 職業安全與衛生 | | 2 | 2 | | | | | | | | | | | | | | | |
| 基本電學 | | 2 | 2 | | | | | | | | | | | | | | | |
| 基本數位邏輯電路 | | 2 | 2 | | | | | | | | | | | | | | | |
| 工業安全 | | | | 2 | 2 | | | | | | | | | | | | | |
| 電路學 | | | | 2 | 2 | | | | | | | | | | | | | |
| 數位系統設計 | | | | 3 | 3 | | | | | | | | | | | | | |
| 電子學實習(一)(二) | | 1 | 2 | 1 | 2 | | | | | | | | | | | | | |
| 小計 | | 12 | 13 | 11 | 12 | | | | | | | | | | | | | |
| 專 業 選 修 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | 小計 | | | | | | | | | | | | | | | | | |
| 專 業 選 修 | 程式設計 | 2 | 2 | | | | | | | | | | | | | | | |
| | RFID應用系統開發實務 | 3 | 3 | | | | | | | | | | | | | | | |
| | 通訊系統 | 3 | 3 | | | | | | | | | | | | | | | |
| | 通訊系統實務 | 3 | 3 | | | | | | | | | | | | | | | |
| | FPGA設計實務 | 3 | 3 | | | | | | | | | | | | | | | |
| | 半導體元件 | 3 | 3 | | | | | | | | | | | | | | | |
| | 半導體製程技術 | 3 | 3 | | | | | | | | | | | | | | | |
| | 微處理機原理 | | | 3 | 3 | | | | | | | | | | | | | |
| | 電磁學 | | | 3 | 3 | | | | | | | | | | | | | |
| | 數位積體電路設計與佈局 | | | 3 | 3 | | | | | | | | | | | | | |
| 天線設計實務 | | | 3 | 3 | | | | | | | | | | | | | | |
| 功率元件與佈局設計實 | | | 3 | 3 | | | | | | | | | | | | | | |
| 單晶片微電腦實務 | | | 3 | 3 | | | | | | | | | | | | | | |
| 射頻電路設計 | | | 3 | 3 | | | | | | | | | | | | | | |
| 線性代數 | | | 3 | 3 | | | | | | | | | | | | | | |
| 積體電路工程 | | | 3 | 3 | | | | | | | | | | | | | | |

| 學年度 | | 115 | | | |
|------------------|--------------|----------|----|----------|----|
| 科目 | | SEP 2026 | | FEB 2027 | |
| | | 學分 | 時數 | 學分 | 時數 |
| 校 必 修 | | | | | |
| | 小計 | | | | |
| 院 必 修 | | | | | |
| | 小計 | | | | |
| 專 業 必 修 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | 小計 | 0 | 0 | 0 | 0 |
| 專 業 選 修 | 產業實務實習(三)(四) | 9 | 9 | 9 | 9 |
| | 記憶體佈局設計實務 | 3 | 3 | | |
| | 積體電路測試實務 | 3 | 3 | | |
| | 先進積體電路封裝與測試 | 3 | 3 | | |
| | 積體電路測試實務 | 3 | 3 | | |
| | 物聯網應用實務 | | | 3 | 3 |
| | 無線電技術實務 | | | 3 | 3 |
| | 透視射頻電路設計 | | | 3 | 3 |
| | 數位通訊實務 | | | 3 | 3 |
| | 工業安全與衛生 | | | 3 | 3 |

| 專業選修課程開課規劃 | |
|------------|----|
| 學期 | 時數 |
| 第一學年第一學期 | 0 |
| 第一學年第二學期 | 0 |
| 第二學年第一學期 | 0 |
| 第二學年第二學期 | 0 |
| 第三學年第一學期 | 14 |
| 第三學年第二學期 | 9 |
| 第四學年第一學期 | 15 |
| 第四學年第二學期 | 12 |
| 開課時數總計 | 50 |

| 項目 | 學分 | 時數 |
|------|-----|-----|
| 校必修 | 21 | 33 |
| 院必修 | 10 | 10 |
| 專業必修 | 47 | 49 |
| 專業選修 | 50 | 50 |
| 合計 | 128 | 142 |

電子工程系 張承勛 主任

- 注意事項：
- 最低畢業學分：128學分；必修學分：78學分；選修學分50學分（選修學分含時修選修學分）。
 - 學生需修習華語輔導課程(0學分5小時)，並於第一學年上學期實施。
 - 本系允許時修選修學分，惟本系專業選修學分不得低於24學分。
 - 校外實習課程：產業實務實習(一)(二)(三)(四)，1學分至多80小時。
 - 表列選修課程僅供參考，依實際狀況調整。

113.03.05



半導體學院 張合 院長

MUST Curriculum Planning for Undergraduate Students of Academic Year 2023-2027.

| Year | Course | 111 | | | | Year | Course | 111 | | | | Year | Course | 114 | | | |
|---------------------------------------|---|--|------|----------|----------|----------|--------|----------|------|----------|----------|------|--------|----------|------|----------|------|
| | | SEP 2023 | | FEB 2024 | | | | SEP 2024 | | FEB 2025 | | | | SEP 2025 | | FEB 2026 | |
| | | Cr. | Sec. | Cr. | Sec. | | | Cr. | Sec. | Cr. | Sec. | | | Cr. | Sec. | Cr. | Sec. |
| MUST Core Required Courses | Physical Education | 1 | 2 | 1 | 2 | | | | | | | | | | | | |
| | Chinese Praxis & Pronunciation Practice | 1 | 2 | | | | | | | | | | | 2 | 2 | | |
| | Chinese Tutor | 0 | 3 | | | | | | | | | | | | | | |
| | Chinese Listening | 1 | 2 | | | | | | | | | | | | | | |
| | Chinese Daily Speaking | 1 | 2 | | | | | | | | | | | | | | |
| | Chinese Reading | 1 | 2 | | | | | | | | | | | | | | |
| | Chinese Writing | 1 | 2 | | | | | | | | | | | | | | |
| | Chinese Literature | | | 2 | 2 | | | | | | | | | | | | |
| | Chinese Culture | | | 2 | 2 | | | | | | | | | | | | |
| | Taiwanese Classified General Education | | | 2 | 2 | | | | | | | | | | | | |
| Taiwanese Culture | | | 2 | 2 | | | | | | | | | | | | | |
| Subtotal | 8 | 17 | 11 | 12 | Subtotal | | | | | Subtotal | 2 | 2 | 2 | 2 | | | |
| School Professor and Required Courses | Technical English (1111) | 2 | 2 | 2 | 2 | | | | | | | | | 2 | 2 | | |
| | Subtotal | 2 | 2 | 2 | 2 | Subtotal | | | | | Subtotal | 2 | 2 | 2 | 2 | | |
| MUST Core Required Courses | Physics and Physics experiments I (11) | 2 | 2 | 2 | 2 | | | | | | | | | 2 | 2 | 2 | |
| | Calculus | 2 | 2 | | | | | | | | | | | | | | |
| | Differential Equations and Invariance | 2 | 2 | | | | | | | | | | | | | | |
| | Basic Electronics | 2 | 2 | | | | | | | | | | | | | | |
| | Digital Logic | 2 | 2 | | | | | | | | | | | | | | |
| | Industrial Safety | | | 2 | 2 | | | | | | | | | | | | |
| | Basic Chemistry | | | 2 | 2 | | | | | | | | | | | | |
| | Digital System Design | | | 2 | 2 | | | | | | | | | | | | |
| | University Career Plan | 1 | 2 | 1 | 2 | | | | | | | | | | | | |
| | Subtotal | 12 | 18 | 11 | 12 | Subtotal | 8 | 8 | 8 | 8 | Subtotal | 2 | 2 | 2 | 2 | | |
| MUST Core Required Courses | Industrial Practice (11) (11) | 2 | 2 | 2 | 2 | | | | | | | | | 2 | 2 | 2 | |
| | Subtotal | 2 | 2 | 2 | 2 | Subtotal | 2 | 2 | 2 | 2 | Subtotal | 2 | 2 | 2 | 2 | | |
| | MUST Core Required Courses | English Program Int. | 2 | 2 | | | | | | | | | | | | | |
| | | RFID Application and Knowledge of Practice | 2 | 2 | | | | | | | | | | | | | |
| | | Industrial Safety | 2 | 2 | | | | | | | | | | | | | |
| | | Communication System Practice | 2 | 2 | | | | | | | | | | | | | |
| | | EDA Design Practice | 2 | 2 | | | | | | | | | | | | | |
| | | Industrial Safety | 2 | 2 | | | | | | | | | | | | | |
| | | Linear Algebra | | | 2 | 2 | | | | | | | | | | | |
| | | Linear Algebra | | | 2 | 2 | | | | | | | | | | | |
| Electromagnetism | | | | 2 | 2 | | | | | | | | | | | | |
| Integrated Circuit Design Practice | | | | 2 | 2 | | | | | | | | | | | | |
| MUST Core Required Courses | Single Micro Computer Principles & Practice | | | 2 | 2 | | | | | | | | | | | | |
| | Radio Frequency Circuit Design | | | 2 | 2 | | | | | | | | | | | | |
| | Integrated Circuit Design | | | 2 | 2 | | | | | | | | | | | | |
| | Subtotal | | | 2 | 2 | | | | | | | | | | | | |

| Year | Course | 111 | | | |
|---------------------------------------|--------------------------------|----------|------|----------|------|
| | | SEP 2023 | | FEB 2024 | |
| | | Cr. | Sec. | Cr. | Sec. |
| MUST Core Required Courses | Subtotal | | | | |
| | Subtotal | | | | |
| School Professor and Required Courses | Subtotal | | | | |
| | Subtotal | | | | |
| MUST Core Required Courses | Industrial Practice (11) (11) | 2 | 2 | 2 | 2 |
| | Heavy Lifting Design Practice | 2 | 2 | | |
| | IC Testing Practice | 2 | 2 | | |
| | Advanced IC Package Technology | 2 | 2 | | |
| | IC Testing Practice | 2 | 2 | | |
| | IoT Application Practice | | | 2 | 2 |
| | Reverse Technology Practice | | | 2 | 2 |
| | Advanced IC circuit design | | | 2 | 2 |
| | Digital Communication Practice | | | 2 | 2 |
| | Industry Safety and Health | | | 2 | 2 |

- Cr./Sec./Credit/Sec
- Remarks:
- Minimum credits received for admission: 128 credits including 100 mandatory credits, and at least 20 elective credits (including the interdepartmental elective credits).
 - Undergraduate students shall take 3 basic science tutoring courses (6 credits) in the first semester of the first academic year.
 - Inter-departmental elective credits are transferable. Professional elective course credits shall not be more than 28.
 - The elective courses listed in the table are subject to adaptation when necessary.
 - RFID course practice course: Professional Practice (11) (11) (11) (11), 4 credits require 80 hours of off-campus practice.

718 88 88



電子工程系 張承勛 主任

電子學院 張合 院長