

(擬)半導體工程學系 固態電子組 雙主修科目表

115 學年度 (Academic Year 115)

※115.05 課程科目正進行校方行政程序作業中。

| 科目名稱 Course Name | 學分 Credit | 第一學年 Grade 1 | | 第二學年 Grade 2 | | 第三學年 Grade 3 | | 第四學年 Grade 4 | | 備註 Note | |
|--|--------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|------------|--------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | | |
| 物理(一)(二) Physics | 8 | 4 | 4 | | | | | | | 必修課程共68學分。 | |
| 化學(一)(二) Chemistry | 6 | 3 | 3 | | | | | | | | |
| 微積分(一)(二) Calculus | 8 | 4 | 4 | | | | | | | | |
| 計算機概論與程式設計 Introduction to Computers and Programming | 3 | 3 | | | | | | | | | |
| 線性代數 Linear Algebra | 3 | | 3 | | | | | | | | |
| 電子學(一)(二) Electronics | 6 | | | 3 | 3 | | | | | | |
| 電磁學(一)(二) Electromagnetics | 6 | | | 3 | 3 | | | | | | |
| 電子實驗(一)(二) Electronics Labs. | 4 | | | 2 | 2 | | | | | | |
| 微分方程 Differential Equations | 3 | | | 3 | | | | | | | |
| 電路學 Circuit Theory | 3 | | | 3 | | | | | | | |
| 近代物理 Modern Physics | 3 | | | | 3 | | | | | | |
| 機率 Probability | 3 | | | | 3 | | | | | | |
| 半導體元件物理 Semiconductor Device Physics | 3 | | | | | 3 | | | | | |
| 量子力學導論 Introduction to Quantum Mechanics | 3 | | | | | 3 | | | | | |
| 半導體實驗 Semiconductor Laboratory | 3 | | | | | | 3 | | | | |
| 固態物理(一) Solid State Physics(I) | 3 | | | | | | 3 | | | | |
| 邏輯設計 Logic Design | 3 | | 3 | | | | | | | | 必選2門課程，共6學分。 |
| 訊號與系統 Signals and Systems | 3 | | | | | 3 | | | | | |
| 超大型積體電路設計導論 Introduction to VLSI Design | 3 | | | | | 3 | | | | | |
| 類比積體電路導論 Introduction to Analog Integrated Circuits | 3 | | | | | 3 | | | | | |
| 類比積體電路設計實驗 Analog Integrated Circuits LAB | 3 | | | | | 3 | | | | | |
| 數位積體電路設計實驗 Digital Integrated Circuits LAB | 3 | | | | | 3 | | | | | |
| 半導體製程技術 Semiconductor Processing Technology | 3 | | | | | 3 | | | | | |
| 記憶體積體電路導論 Introduction to Memory Integrated Circuits | 3 | | | | | 3 | | | | | |
| 積體電路製程整合導論 Introduction to Integrated Circuit Process Integration | 3 | | | | | 3 | | | | | |
| 先進積體電路封裝技術導論 Introduction of IC package technology | 3 | | | | | 3 | | | | | |
| 矽光子技術導論 Introduction to Silicon Photonics Technology | 3 | | | | | | 3 | | | | |
| 固態物理(二) Solid State Physics(II) | 3 | | | | | | 3 | | | | |

本系(固態組)雙主修規定：除必修課程 68 學分外，需完成至少 6 學分的必選課程，共計 74 學分。