**元智大學電機通訊學院英語學士班設置輔系科目表**

International Program in Electrical and Communication Engineering for Bachelor at Yuan Ze University

List of Minor Courses

（108學年度申請適用For students admitted to the Minor in Academic Year 2019）

108.05.01 一○七學年度第六次教務會議通過

Passed by the 6th Academic Affairs Meeting, Academic Year 2018, on May 01, 2019

109.05.06 一○八學年度第六次教務會議通過

Approved by the 6th Academic Affairs Meeting, Academic Year 2019, on May 6, 2020

| 輔系名稱 Minor Title | 輔系科目Minor Courses | 學分Credit | 備註Remarks |
| --- | --- | --- | --- |
| **電機通訊學院****英語學士班**International Program in Electrical and Communication Engineering for Bachelor | 電路學Circuit Theory | 3 | 必修Compulsory |
| 電子學(一)Electronics(I) | 3 |
| 電子學(二)Electronics(II) | 3 |
| 電磁學(一)Electromagnetics (I) | 3 |
| 邏輯電路設計Digital Logic Design | 3 |
| 邏輯電路實驗Logic Circuit Lab. | 1 |
| 電子電路實驗(一)Electronic Circuits Experiments(I) | 1 |
| 電子電路實驗(二)Electronic Circuits Experiments(II) | 1 |
| 共計 | 18 |
| 工程機率Probability for Engineers | 3 | 選修Elective |
| 訊號與系統Signals and Systems | 3 |
| 通訊系統Communications System | 3 |
| 數位通訊Digital Communications | 3 |
| 電磁學(二)Electromagnetics(II) | 3 |
| 電磁波Electromagnetic Waves | 3 |
| 通訊電子學Communication Electronics | 3 |
| 射頻電路設計與應用The Design and Applications of RF Circuits | 3 |
| 通訊網路Communications Network | 3 |
| 物件導向程式設計Object Oriented Programming | 3 |
| 行動裝置應用程式開發Mobile Device Application Development | 3 |
| 數位信號處理概論Introduction of Digital Signal Processing | 3 |
| 電機機械Electrical Machinery | 3 |
| 智慧控制概論Introduction of Intelligent Control | 3 |
| 機器人概論Fundamentals of Robotics | 3 |
| 電力電子Power Electronics | 3 |
| 超大型積體電路設計導論Introduction to VLSI | 3 |
| 數位信號處理概Introduction to Digital Signal Processing | 2 |
| 高階數位IC設計High-Level IC Design | 3 |
| 微感測器及感測電路設計Design on Micro-Sensor and Sensor Circuits | 3 |
| 生物醫學工程概論Biomedical Engineering | 3 |
| 計算機組織(一)Computer Structure(I) | 3 |
| 人機互動概論Human-Computer Interaction | 3 |
| 電腦網路Computer Network | 3 |
| 半導體光學Semiconductor Optics | 3 |
| 半導體元件物理Semiconductor Devices Physics | 3 |
| 近代物理(一)Modern Physics(I) | 3 |
| 共計 | **80** |

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註 Notes：

1. 必修科目共計**18學分**，必須修習本班認可之**英語授課科目**才予承認。

The compulsory courses offered by this Program must be taken at least 18 credits.

1. 選修科目必須修習本班認可之**科目**才予承認。

The elective courses must offered by this Program.

1. 必須修畢至少**30學分**，才予承認其輔系資格。

An individual student who minors in this Program must take courses mentioned above up to 30 credits or more before he/she can have the minor admitted.