**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

（106學年度申請適用For students admitted to the Minor in Academic Year 2017）

106.04.26 一○五學年度第五次教務會議通過

Passed by the 5th Academic Affairs Meeting, Academic Year 2016, on April 26, 2017

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

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| 輔系名稱 Minor in | 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 |
| 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 |
| 電腦網路  Computer Network | 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 |
| 半導體元件物理  Semiconductor Devices Physics | 3 |
| 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 |
| 行動終端之相機Apps程式開發  Camera-based Apps Development for Smart Phone | 3 |
| 光學(一)  Optics(I) | 3 |
| 光學(二)  Optics(II) | 3 |
| 近代物理(一)  Modern Physics(I) | 3 |
| 光學實驗(一)  Optics Lab.(I) | 1 |
| 光學實驗(二)  Optics Lab.(II) | 1 |
| 共計 | 80 |

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註 Notes：

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

The elective courses must be taught in English and 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.