

# 電子工程學系

## Department of Electronics Engineering

107 學年度 (Academic Year 2018)

課目名稱 course name	規定 學分 credit	第一學年 freshmen		第二學年 sophomore		第三學年 junior		第四學年 senior		備註 remarks
		1st	2nd	1st	2nd	1st	2nd	1st	2nd	
		普通物理(一)(二) General Physics(I)(II)	6	3	3					
物理實驗(一)(二) Physics Lab.(I)(II)	2	1	1							
微積分(一)(二) Calculus(I)(II)	6	3	3							
計算機概論與程式設計 Introduction to Computers and Programming	3	3								
工程數學 Engineering Mathematics (including Linear Algebra, Differential Equation, Probability and Statistics, Complex Variable and Discrete Mathematics.)	10	3	3	4	3	線性代數、微分方程必修，機率與統計、複變函數、 離散數學等三科至少選二科，且至少一科及格。 Linear Algebra and Differential Equation are required courses. And students are required to take at least two courses among Probability and Statistics, Complex Variable and Discrete Mathematics, and pass at least one course of them.				
電子學(一)(二) Electronics(I)(II)	6			3	3					
數位實驗 Digital Lab.	2		2							
電子實驗(一)(二) Electronics Lab.(I)(II)	4			2	2					
電路學 Int. to Circuit Theory	3			3						
電磁學 Electromagnetics	3				3					
邏輯設計 Logic Design	3	3								
導師時間暨電子與生活 Electronics & Life	0	0	0							
電子專題討論 Seminar on Electronics	0					0				
電子工程專題 Special Project on Electronics Engineering	1						1			三上~四下任一學期修 習
九必選一 實驗課 Laboratory (Students are required to take one course among the right eight courses)	2	包括半導體實驗(研)、數位訊號處理實驗、微處理機系統與實驗(資 工系)、元件電路計測實驗(研)、積體電路設計實驗(研)、高頻電路 設計與實驗(研)、生物晶片實作(生物科技系)、嵌入式系統技術實 驗、類比積體電路實驗。 Laboratory(students are required to take one course among the eight courses) Comprising 'Semiconductor Laboratory', 'Digital Signal Processing Laboratory', 'Microprocessor System and Lab.', 'Device and Circuit Characterization Laboratory', 'Integrated Circuit Design Laboratory', 'High-Frequency Circuits & Design Laboratory', 'Introduction and Experimental on Bioelectronics(offered by Biological Science and								

	Technology)', 'Embedded System Laboratory', 'Analog Integrated Circuits LAB'
合計學分 Credit	51
本系最低畢業學分為 129 學分〔外語課程必修 8 學分〕	

修本系工程數學、實驗課、微積分甲（微積分乙不認列），高於專業必修所列科目之學分，可計入專業選修學分中。（例如微積分 4 學分，其中 3 學分採計專業必修、1 學分採計專業選修）。

## 電子工程學系輔系科目表

### Department of Electronics Engineering Minor Program

107 學年度(Academic Year 2018)

科目名稱 Course Name	學分數 Credit	科目名稱 Course Name	學分數 Credit
電子學(一)(二) Electronics 類比積體電路導論或超大型積體電 路設計導論	9	電路學 Introduction to Circuit Theory	3
數位實驗 Digital Laboratory	2	電子實驗(一)(二) Electronic Laboratory	4
如上列之必修課已為原系之必修課則在下列各科目中選修 If the compulsory subjects listed above are also the compulsory ones in the original department of the student who minors in Electronics Engineering, then the compulsory subjects shall be selected from the list below.			
電磁學、電磁波 Electromagnetics	6	邏輯設計 Logic Design	3
輔系最低應修學分為 20 學分 The minimum of credits needed to Minor Program is 20.			