類別		Plan of Academic Year 113 (2024) in			
Type	類別 Module	科 目 名 稱 Course Title	規定學分 Credits	修課年級 Academic Year / Semester	備註 Remark
校訂 Courses the Univ		導師時間 Academic Advising	0	From Freshman to Senior / 8 semesters	0
		大學入門 Introduction to University Studies	2	Freshman / 1st	32
	核心課程 Fundamental Courses	人生哲學 Philosophy of Life	4	Sophomore / 1st & 2nd	
		專業倫理-科技倫理 Professional Ethics- Scientific and Technology Ethics	2	Junior / 2nd	
全人教育課程		體育 Physical Education	0	From Freshman to Sophomore / 4 semesters	
Holistic Education	基本能力課程 Core Abilities Courses	國文 Chinese	4	Freshman / 1st & 2nd	
(Requied)		外國語文 Foreign Language	8	From Freshman to Sophomore / 4 semesters	
		資訊素養 Information Literacy	0	N/A	
	通識涵養課程	人文 Humanities & Arts	4	N/A	
	General Education	自然 Nature & Technology	4	N/A	
	Education Courses	社會 Social Sciences	4	N/A	
		微積分(一) Calculus I	3	Freshman/1st	
		普通物理(一) General Physics (I)	3	Freshman/1st	1
		程式設計(一) Computer programming I	3	Freshman/ 2nd	
		普通化學(一) General Chemistry (I)	2	Freshman/1st	
		普通物理實驗 General Physics Lab.	2	Freshman/ 1st & 2nd	
		普通化學實驗(一) General Chemistry Lab.	1	Freshman/1st	1
		(I) 微積分(二) Calculus II			
			3	Freshman/ 2nd	
		普通物理(二) General Physics (II)	3	Freshman/ 2nd	
		線性代數 Linear Algebra	3	Freshman/ 2nd	
		普通物理(三) General Physics (III)	3	Sophomore/1st	
		電磁學(一) Electromagnetism (I) 應用數學(一) Applied Mathematics (I)	3	Sophomore/1st Sophomore/1st	
		電子學(一) Electronics (I)	3	Sophomore/1st	
		電子學實驗(一) Experiments on Electronics (I)	2	Sophomore/1st	
系必1 Department	多課程 : Required	電磁學(二) Electromagnetism(II)	3	Sophomore/ 2nd	70
		近代物理 Modern Physics	3	Sophomore/ 2nd	
		應用數學(二) Applied Mathematics (II)	3	Sophomore/ 2nd	
		電子學(二) Electronics (II)	3	Sophomore/ 2nd	
		電子學實驗(二) Experiments on Electronics (II)	2	Sophomore/ 2nd	
		量子物理(一) Quantum Physics I	3	Junior/1st	
I			3	Junior/1st	
		固態物理導論 半導體物理導論 Introduction to			
		半導體物理導論 Introduction to Semiconductor Physics	3	Junior/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices	3		
		半導體物理導論 Introduction to Semiconductor Physics	3	Junior/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of	3	Junior/1st Junior/2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication	3 2 2	Junior/1st Junior/2nd Junior/2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理	3 2 2 3	Junior/1st Junior/2nd Junior/2nd Junior/2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics	3 2 2 3 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium	3 2 2 3 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體配件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I)	3 2 2 3 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II)	3 2 2 3 2 2 2 3 3	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior//2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體現程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I	3 2 2 3 2 2 2 3 3 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior//2nd Sophomore/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II	3 2 2 3 2 2 3 3 3 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior//2nd Sophomore/1st Sophomore/ 2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體配件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(二) Colloquia II 物理英文 English for Physics	3 2 2 3 2 2 3 3 3 2 2 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior//2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體元件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics	3 2 2 3 2 2 2 3 3 2 2 2 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體配件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics	3 2 2 3 2 2 3 3 3 2 2 2 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/1st Sophomore/1st Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/ 1st Junior/2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體配件 Semiconductor Devices 半導體型程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 連階應用電子學實驗Advanced Electronics Laboratory	3 2 2 3 2 2 2 2 2 2 2 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st Junior/2nd Senior/1st Senior/1st Sophomore/1st Junior/2nd Senior/1st Senior/1st	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體配件 Semiconductor Devices 半導體製程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鍍膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 連階應用電子學實驗Advanced Electronics Laboratory 光電導論 Introduction to Optoelectronics	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/1st Sophomore/1st Sophomore/2nd Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st Junior/2nd Senior/1st Junior/2nd Senior/1st Junior/2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體配件 Semiconductor Devices 半導體型程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 連階應用電子學實驗Advanced Electronics Laboratory	3 2 2 3 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2 2	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st Junior/2nd Senior/1st Junior/2nd Sophomore/ 2nd Sophomore/ 2nd Sophomore/ 2nd Sophomore/ 2nd Sophomore/ 2nd Sophomore/ 2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體元件 Semiconductor Devices 半導體現程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 連階應用電子學實驗Advanced Electronics Laboratory 光電導論 Introduction to Optoelectronics 科學英文 English for Science 材料科學與工程導論 Materials Science and Engineering:An Introduction	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 1st Junior/2nd Senior/1st Junior/2nd Senior/1st Junior/2nd Senior/1st Junior/2nd Sophomore/ 2nd Junior/2nd Sophomore/ 2nd	
		半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體元件 Semiconductor Devices 半導體現程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 進階應用電子學實驗Advanced Electronics Laboratory 光電導論 Introduction to Optoelectronics 科學英文 English for Science 材料科學與工程導論 Materials Science and Engineering:An Introduction [馬用光學(一) Applied Optics I	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 3 3 2 2 3 3 3 3 2 3 3 2 3 3 3 3 2 3	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st Junior/2nd Senior/1st Senior/1st Junior/2nd Senior/1st Junior/2nd Junior/2nd Sophomore/ 2nd Junior/2nd Junior/2nd Junior/2nd	
系選	多課程	半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體元件 Semiconductor Devices 半導體型程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia II 專題演講(一) Colloquia II 物理英文 English for Physics 真空鍍膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 進階應用電子學實驗Advanced Electronics Laboratory 光電導論 Introduction to Optoelectronics 科學英文 English for Science 材料科學與工程導論 Materials Science and Engineering: An Introduction 應用光學(一) Applied Optics I 應用光學(一) Applied Optics	3 2 2 3 2 2 3 3 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/1st Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st Junior/2nd Senior/1st Junior/2nd Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Junior/2nd Junior/2nd Junior/2nd Junior/2nd Junior/2nd	
系選作 Department subi	elective	半導體物理導論 Introduction to Semiconductor Physics 半導體元件 Semiconductor Devices 半導體元件 Semiconductor Devices 半導體現程概論 Fundamentals of semiconductor fabrication 熱統計物理 進階實驗物理 Advanced Experimental Physics 書報討論 Colloquium 物理數學(一) Mathematical Physics (I) 物理數學(二) Mathematical Physics (II) 專題演講(一) Colloquia I 專題演講(一) Colloquia II 物理英文 English for Physics 真空鏡膜技術 Vacuum Coating Technology 光電實驗 Opto-Electronics Laboratory 計算物理 Computational physics 進階應用電子學實驗Advanced Electronics Laboratory 光電導論 Introduction to Optoelectronics 科學英文 English for Science 材料科學與工程導論 Materials Science and Engineering:An Introduction [馬用光學(一) Applied Optics I	3 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 3 3 2 2 3 3 3 3 2 3 3 2 3 3 3 3 2 3	Junior/1st Junior/2nd Junior/2nd Junior/2nd Junior/2nd Senior/1st Senior/1st Senior/2nd Sophomore/1st Sophomore/ 2nd Sophomore/ 2nd Sophomore/1st Junior/2nd Senior/1st Senior/1st Junior/2nd Senior/1st Junior/2nd Junior/2nd Sophomore/ 2nd Junior/2nd Junior/2nd Junior/2nd	15

Study Plan of Academic Year 113 (2024) in PHYS(Electrophysics Section)							
類別 Type	類別 Module	科 目 名 稱 Course Title	規定學分 Credits	修課年級 Academic Year / Semester	備註 Remark		
Type	MOdule	生醫光電導論 Introduction to Biophotonics	2	Junior/2nd	Remer R		
		光纖雷射導論 Introduction to Fiber Lasers	2	Senior//2nd	1		
		固態光譜學	2	Junior/1st	1		
		電路學(一) Circuit Theory(I)	3	Sophomore/1st	1		
		高等粒子物理(二) Advanced Particle Physics (II)	3	Senior/1st]		
		高等量子力學 Advanced Quantum Mechanics	3	Senior/1st			
		量子電腦概論 Introduction to quantum computer	2	Junior/2nd			
		半導體製程概論 Fundamentals of semiconductor fabrication	3	Junior/2nd			
		專題研究(一) Special Topics (I)	1	From Sophomore to Senior/1st or 2nd			
		專題研究(二) Special Topics (II)	1	From Sophomore to Senior/1st or 2nd]		
		專題研究(三) Special Topics (III)	1	From Sophomore to Senior/1st or 2nd	1		
		專題研究(四) Special Topics (IV)	1	From Sophomore to Senior/1st or 2nd	1		
		理論力學(一) Theoretical Mechanics I	3	From Sophomore to Senior/2nd			
		電磁學(三) Electromagnetism III	3	From Junior to Senior/1st	1		
		進階實驗物理 Advanced Experimental Physics	2	Junior/2nd]		
		量子力學(一) Quantum Mechanics I	3	semster/1st]		
		量子力學(二) Quantum Mechanics II	3	semster/2nd]		
		固態物理(一) Solid State Physics (I)	3	semster/1st			
		固態物理(二) Solid State Physics (II)	3	semster/2nd	1		
		高等光電子學 Advanced Photonics	3	semster/2nd	1		
		統計力學 Statistical Mechanics	3	semster/2nd	1		
		光學薄膜 Optical Thin Films	3	semster/1st	1		
		色彩光學 Colorimetry in Optics	3	semster/2nd	1		
条選修課程2 Department electiv subject 2		雷射原理 Laser Physics	3	semster/1st	1		
		超快光學 Ultrafast Optic	3	semster/2nd	1		
		非線性光學 Nonlinear Optics	3	semster/1st	1		
	it Z	傅氏光學 Fourier Optics	3	semster/1st	1		
		生物物理 Biophysics 高等實驗技術 Advanced Experimental	3	semster/2nd semster/1st	-		
		Technology	3	Schister/18t			
		光學設計 Optical Design	3	semster/2nd			
		半導體物理 Semiconductor Physics	3	semster/1st			
		粒子物理 Particle Physics	3	semster/2nd]		
		電磁波輻射原理與應用 Principles and Applications of Electromagnetic Radiation	3	semster/1st			
		材料科學與應用 Materials Science and Engineering:An Introduction	2	semster/2nd]		
		太空物理 Space Physics	3	semster/2nd]		
		光纖雷射導論 Introduction to Fiber Lasers	2	semster/1st]		
		量子物理(二) Quantum Physics II	3	Junior/2nd			
		理論力學(二) Theoretical Mechanics II	3	Junior/1st			