類別 Type	類別 Module	科目名稱	規定學分	修課年級 Academic Year / Semester	備註 Remar	
校訂 Courses Required by the University		導師時間 Academic Advising	0	From Freshman to Senior / 8 semesters	0	
		全民國防教育軍事訓練All-out Defense Education Military Training	0	Freshman / 1st & 2nd		
全人教育課程 Holistic Education (Requied)		大學入門 Introduction to University Studies	2	Freshman / 1st	32	
		人生哲學 Philosophy of Life	4	Sophomore / 1st & 2nd		
	核心課程 Fundamental Courses	專業倫理-科技倫理 Professional Ethics- Scientific and Technology Ethics	2	Junior / 2nd		
		體育 Physical Education	0	From Freshman to Sophomore / 4 semesters		
	基本能力課程 Core Abilities Courses	國文 Chinese	4	Freshman / 1st & 2nd		
		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	I S II O A.d.	4	N/A		
	General	人文 Humanities & Arts 自然 Nature & Technology	4	N/A 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		
		程式設計(一) Computer programming I	3	Freshman/ 2nd		
		微積分(二) Calculus II	3	Freshman/ 2nd		
		普通物理(二) General Physics (II) 普通物理(三) General Physics (III)	3	Freshman/ 2nd Sophomore/1st		
		電磁學(一) Electromagnetism (I)	3	Sophomore/1st		
		電磁學(二) Electromagnetism(II)	3	Sophomore/ 2nd		
		應用數學(一) Applied Mathematics (I)	3	Sophomore/1st		
		近代物理 Modern Physics	3	Sophomore/ 2nd		
		普通化學(一) General Chemistry (I)	2	Freshman/1st		
		普通化學(二) General Chemistry (II)	2	Freshman/ 2nd		
		普通物理實驗 General Physics Lab.	2	Freshman/ 1st & 2nd		
系必修課程 Department Required		普通化學實驗(一) General Chemistry Lab. (I)	1	Freshman/1st	65	
		普通化學實驗(二) General Chemistry Lab. (II)	1	Freshman/ 2nd		
		理論力學(一) Theoretical Mechanics I	3	Sophomore/ 2nd		
		應用數學(二) Applied Mathematics (II)	3	Sophomore/ 2nd		
		線性代數 Linear Algebra	2	Sophomore/1st		
		實驗物理(一) Experimental Physics (I)	2	Sophomore/1st		
		實驗物理(二) Experimental Physics (II)	2	Sophomore/ 2nd		
		量子物理(一) Quantum Physics I	3	Junior/1st		
		實驗物理(三) Experimental Physics (III)	2	Junior/1st		
		熱物理 Thermal Physics	2	Junior/1st		
		統計物理 Statistical Physics	3	Junior/2nd		
		光學 Optics	3	Junior/2nd		
			2			
		書報討論 Colloquium		Senior/1st		
		進階實驗物理 Advanced Experimental Physics	2	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		
群組必修 Compulsory for groups		專題研究(三) Special Topics (III)	1	From Sophomore to Senior/1st or 2nd		
		專題研究(四) Special Topics (IV)	1	From Sophomore to Senior/1st or 2nd	4	
		量子物理(二) Quantum Physics II	3	Junior/2nd	4	
		理論力學(二) Theoretical Mechanics II	3	Junior/1st		
		電子學(一) Electronics (I)	3	Junior/1st		
		電子學實驗(一) Experiments on Electronics (I)	2	Junior/1st		
		電磁學(三) Electromagnetism III	3	Junior/1st	<u> </u>	

Study Plan of Academic Year 110~112~(2021~2023) in PHYS(Physics Section)

類別 Type	類別 Module	科目名稱	規定學分	修課年級 Academic Year / Semester	備 討 Reman
		物理數學(一) Mathematical Physics (I)	3	Senior/1st	
		物理數學(二) Mathematical Physics (II)	3	Senior//2nd	
		專題演講(一) Colloquia I	2	Sophomore/1st	
		專題演講(二) Colloquia II	2	Sophomore/ 2nd	
		物理英文 English for Physics	2	Sophomore/ 2nd	
		真空鍍膜技術 Vacuum Coating Technology	2	Sophomore/1st	
		光電實驗 Opto-Electronics Laboratory	2	Junior/2nd	
		計算物理 Computational physics	3	Senior/1st	
		進階應用電子學實驗 Advanced Electronics Laboratory	2	Senior/1st	
		光電導論 Introduction to Optoelectronics	2	Junior/2nd	
		科學英文 English for Science	2	Sophomore/ 2nd	
		材料科學與工程導論 Materials Science and Engineering:An Introduction	3	Junior/2nd	
		應用光學(一) Applied Optics I	3	Junior/1st	
		應用光學(二) Applied Optics	3	Junior/2nd	
		低温物理 Low Temperature Physics	2	Senior/1st	
		圖形化積木式程式設計 Programming with Visual Building Blocks	2	Sophomore/1st	
		生醫光電導論 Introduction to Biophotonics	2	Junior/2nd	
		光纖雷射導論 Introduction to Fiber Lasers	2	Senior//2nd	
		固態光譜學	2	Junior/1st	
		電路學(一) Circuit Theory(I)	3	Sophomore/1st	
条選修課程		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	
Department sub	ject	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	
		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	
		高等光電子學 Advanced Photonics	3	semster/2nd	
		統計力學 Statistical Mechanics	3	semster/2nd	
		光學薄膜 Optical Thin Films	3	semster/1st	
		色彩光學 Colorimetry in Optics	3	semster/2nd	
		雷射原理 Laser Physics	3	semster/1st	
		超快光學 Ultrafast Optic	3	semster/2nd	
		非線性光學 Nonlinear Optics	3	semster/1st	
		傅氏光學 Fourier Optics	3	semster/1st	
		生物物理 Biophysics	3	semster/2nd	
		高等實驗技術 Advanced Experimental Technology	3	semster/1st	
		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	
		低溫物理 Low Temperature Physics	2	semster/1st	