

Tamkang University Department of Physics Curriculum Plan
(Required Courses for New Students Admitted in the Academic Year 115)

科 目 名 稱 C o u r s e t i t l e		學 分 數	Y e a r 1		Y e a r 2		Y e a r 3		Y e a r 4		備 註 Notes	
			1st	2nd	1st	2n	1st	2nd	1st	2nd		
General Education 26 Credits												
基本 知能 課程 12 學分	外國語文學門(Q) Foreign Languages and Drills	8	2	2	2	2					大 1 英文必修、大 2 外文 自由選 English is required for freshmen.	
	中國語文能力表達 Capability of expressing chinese in spoken and written	2									語文表達 Language Expression	
	大學學習 Learning in University	1	1								學習與發展學門(N) Learning and Development	
	社團學習與實作 Extracurricular activities and team development	1		1							課外活動與團隊發展(K) Learning and practice of clubs:an Introduction	
識核 心課 程 12 學分	人工智慧導論 Introduction To Artificial Intelligence	1	1									
	探索永續 Exploring Sustainability	1	1									
	文學經典學門(L) Classics In World Literature	2									人文領域 至少 2 學 分 2 credits required (1 out of 4 categories)	每學門至多修習 2 科 4 學分
	歷史與文化學門(P) History And Cultures	2										
	哲學與宗教學門(V) Philosophy and Religion	2										
	藝術欣賞與創作學門(m) Art appreciation and invetion	2										
	全球視野學門(T) Global outlook	2									社會領域 至少 2 學 分 2 credits required (1 out of 4 categories)	
	未來學學門(R) Futures studies	2										
	社會分析學門(W) Social analysis	2										
	公民社會及參與學門(S) Civil Society And Participation	2										
	資訊教育學門(O) Information & Computer Education	2									科學領域 至少 2 學 分 2 credits required (1 out of 4 categories)	
	全球科技革命學門(Z) Global technology revolution	2										
自然科學學門(U) Natural sciences	2											

每學門至多修習
2 科 4 學分

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其他 課程	體育 Physical education	4	1	1	1	1					*Not counted toward graduation credits*
	全民國防教育軍事訓練 (一)-國防科技 All-Out Defense Education Military Training(I)-National Defense Technolog	1									*Not counted toward graduation credits* *offered in Year 1 for one semester
校園與社區服務學習 Learning campus and community srevices		2	1	1							
Physics Department Required Course 63 Credits											
普通化學 General chemistry		3	3								
普通化學實驗 General chemistry lab.		1	1								實驗課程
普通物理 General Physics		8	4	4							
普通物理實驗 General physics lab.		2	1	1							實驗課程
微積分 Calculus		6	3	3							
基礎物理數學 Fundamental mathematical physics		2		2							
計算機概論 Introduction to computers		3		3							
電磁學 Electromagnetism		6			3	3					
物理數學 Mathematical physics		3			3						
電磁學實驗 Electromagnetic physics lab.		2			1	1					實驗課程
力學 Mechanics		3				3					
AI 數值方法(一) Numerical Methods and Artificial Intelligence (I)		2			2						

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專題研究 Research seminar	2				1	1				專題課程
量子物理 Quantum physics	6					3	3			
熱力學 Thermodynamics	3						3			
光學 Optics	3					3				
光學實驗 Optics lab.	1						1			實驗課程
電子學 Electronics	3					3				
電子學實驗 Electronics lab.	2					1	1			實驗課程
近代物理實驗 Modern physics lab	2							1	1	實驗課程

(1) Required credits (including general education 26 credits) : 89 credits

(2) Minimum departmental elective credits : 11 credits

(3) Free elective credits : 28 credits

Total credits for graduation : 128 credits