Tamkang University College of Science: Bachelor's Program in Advanced Materials

Science – Required Course List for Freshmen (112th Academic Year)

科 目 名 稱 Course title	credits	Year 1		Year 2		Year 3		Year 4		備註
		1st	2nd	1st	2nd	1st	2nd	1st	2nd	Notes
普通化學 General Chemistry	6	3	3							
普通化學實驗 General Chemistry Lab	2	1	1							
普通物理 General Physics	6	3	3							
普通物理實驗 General Physics Lab	2	1	1							
微積分 Calculus	6	3	3							
材料科學導論 Introduction to Materials Science	2	2								
基礎生物 Basic Biology	3		3							
有機化學 Organic Chemistry	3			3						
應用電磁學 Applied Electromagnetics	3			3						
電子電路學(一) Electronic Circuits (I)	3			3						
近代物理導論 Introduction to Modern Physics	3				3					
生醫材料 Biomedical Materials	3				3					
有機材料 Organic Materials	3				3					
尖端材料專題研究(一) Advanced Materials Special Topics (I)	1				1					

科 目 名 稱 Course title	credits	Year 1		Year 2		Year 3		Year 4		備註
		1st	2nd	1st	2nd	1st	2nd	1st	2nd	Notes
高分子材料 Polymer Materials	3					3				
奈米科學 Nanoscience	3					3				
材料結構與檢測(一) Materials Structure and Characterization (I)	2					2				
光電材料 Optoelectronic Materials	3						3			
材料科學實驗(一) Materials Science Lab (I)	1						1			
材料結構與檢測(二) Materials Structure and Characterization (II)	2						2			
材料科學實驗(二) Materials Science Lab (II)	1							1		

Total Required Credits for this Degree Program: 87 credits (including 26 credits for General Education courses)

• Minimum Required Elective Credits for this Degree Program: 21 credits

• Other Elective Credits: 20 credits

• Total Credits for Graduation: 128 credits