

1 st year(11)					2 nd year(12)					3 rd year(13)									
	Course	1 st semester		2 nd semester			Course	1 st semester		2 nd semester			Course	1 st semester		2 nd semester			
		Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.			Cr.	hr.	Cr.	hr.		
MUST Core Required Courses	Physical Education	0	2	0	2	MUST Core Required Courses	Classified General Education	2	2	2	2	MUST Core Required Courses							
	Classified General Education	2	2	2	2		Classified General Education	2	2	2	2								
	Classified General Education	2	2	2	2														
	Subtotal	4	6	4	6		Subtotal	4	4	2	2		Subtotal	0	0	0	0	0	
School Professional Required Courses	Chemistry and Laboratory	2	3			School Professional Required Courses	Ethics for Engineers	2	2			School Professional Required Courses							
	Calculus (I)(II)	3	3	3	3		Technical English (III)(IV)	2	2	2	2								
	Technical English (I)(II)	2	2	2	2														
	Chinese Reading and Expressions (I)(II)	2	2	2	2														
	Physical Chemistry and Laboratory	2	3																
	Programming	3	3																
	Introduction to Artificial Intelligence			3	3														
	Basic Electricity and Electrical Experiment			2	3														
Subtotal	14	18	12	13	Subtotal	4	4	2	2	Subtotal	0	0	0	0	0				
Department compulsory courses	Introduction to Material science(I)(II)	2	2	2	2	Department compulsory courses	Engineering Mathematics	3	3			Department compulsory courses	Project Research (I)(II)	1	1	1	1		
	Analytical chemistry experiment			2	3		Fundamentals of Instrumental Analysis and Lab.	2	3				Materials Thermodynamics	3	3				
							Physical Metallurgy	3	3				Material Engineering Laboratory	2	3				
							Physical Chemistry and Experiments	2	3				Semiconductor Process Technology	3	3				
							Metals and Inorganic materials		3	3			Material mechanical properties		3	3			
							Electronic Materials		3	3			Materials Analysis and Experiments		2	3			
							Organic Chemistry and Laboratory		2	3			Semiconductor process experiment		2	3			
Subtotal	2	2	2	3	Subtotal	7	0	4	0	Subtotal	0	7	0	7					
Department Elective Courses	Introduction to semiconductor materials industry	2	2			Department Elective Courses	Vacuum Technology	3	3			Department Elective Courses	Chemical Engineering Practices	3	3				
	Creative Wisdom Materials	3	3				Inorganic Chemistry	3	3				Optoelectronic Material and Application	3	3				
	Introduction of Green Materials			3	3		Polymeric Materials		2	2			Introduction to Solar Cell Materials		3	3			
	Practice of Innovative and Creative			2	2								Introduction to Flat Panel Display		3	3			
													Nanotechnology and Materials		3	3			
										Printed circuit board fabricating processes		3	3						
										Mechanical Properties of Materials		2	2						

4 th year(14)					
	Course	1 st semester		2 nd semester	
		Cr.	hr.	Cr.	hr.
MUST Core Required Courses					
Subtotal		0	0	0	0
School Professional Required Courses					
Subtotal		0	0	0	0
Department compulsory courses	Internship			9	9
Subtotal		0	0	0	0
Department Elective Courses	Introduction to Biotechnology	3	3		
	Patent search and writing	3	3		
	Hydrogen energy and fuel cells	3	3		
	Cleaner production technology			3	3
	Application of composite materials			3	3
	Introduction to Biomimetic Materials			3	3
Internship	9	9			

Cr./hr. =Credit/hour

Remarks:

- According to university regulations, students are required to meet the graduation requirement of basic language proficiency and professional skills.
- Students shall take 4 hours Service Education courses (0 credits) in the first and second semester of the first academic year.
- In the first three years, students must take 16-30 credits per semester, and 9-30 credits per semester in the 4th year.
- Minimum graduation credits: 128 credits; Compulsory credits: 96 credits; Elective credits: 32 credits (elective credits include inter-departmental elective credits); the elective credits for majors in the department must not be lower than 20 credits.
- Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent of the second year of high school study of the ROC's high school sophomore level, or with a high school equivalent degree, need to take 140 credits including compulsory credits, and at least 44 elective credits (including inter-departmental elective credits), while elective professional course credits shall not be fewer than 32. The program can be extended up to 3 academic years.
- Students should take off-campus internship courses, and the relevant measures are handled in accordance with the Implementation of Off-campus Internship Teaching for Students in the Department of Applied Materials Science and Technology".
- Elective courses are subject to change if necessary.