

中信科技大學 四年制 冷凍空調與能源系 日間部 課程規劃表(適用114學年度新南向專班)
 CTBC University of Technology Curriculum of Refrigeration Air Conditioning and Energy Department for Four-Year Bachelor's Degree Program
 -Day Division (New Southbound International Student Industry-Academia Cooperation Program (Effective from Fall 2025))

科目名稱 Subject		第一學年				第二學年				第三學年				第四學年			
		上學期		下學期		上學期		下學期		上學期		下學期		上學期		下學期	
		學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours
校訂必修 課程 Stipulated Required Courses	生活華語會話(1) Living Mandarin Conversation (1)	2/	4														
	華語聽力與閱讀(1) Chinese Reading and Writing (1)	4/	8														
	華語寫字與寫作(1) Chinese Words and Writing (1)	2/	2														
	生活華語會話(2) Living Mandarin Conversation(2)			2/	4												
	華語寫字與寫作(2) Chinese Words and Writing(2)			2/	2												
	華語聽力與閱讀(2) Chinese Reading and Writing (2)			4/	8												
	華語文能力檢定輔導 Chinese Ability Certificate			2/	2												
	職場倫理 Employment Ethics					2/	2										
	體育 Physical Education					2/	2										
	台灣歷史與文化 Taiwan History and Culture							2/	2								
	小計Subtotal	8/	14	10/	16	4/	4	2/	2	0/	0	0/	0	0/	0	0/	0
專業必修 課程 Professional Required Courses	熱力學 Thermodynamics	2/	2														
	工程圖學 Engineering Drawing	2/	2														
	電腦輔助繪圖 Computer Assisted Drafting			2/	2												
	冷凍空調原理 Principles of Refrigeration and Air					2/	2										
	程式設計 Programming Course					4/	4										
	流體力學 Fluid Mechanics							2/	2								
	冷凍空調原理實驗 Experiment of Refrigeration and Air							2/	2								
	Condition Principle																
	冷凍空調裝修實習 Maintenance & Practice of Refrigeration and							4/	4								
	Air Conditioning																
	能源工程 Energy Engineering									2/	2						
	冷凍工程與設計 Refrigeration Engineering and Design									2/	2						
	簡報製作與表達 Presentation Production and Presentation									2/	2						
	電工學 Electricity Engineering									2/	2						
	空調工程與設計 Air Conditioning Engineering and Design											2/	2				
	冷凍空調自動控制 Automatic Control of Refrigeration and Air											2/	2				
	Conditioning																
	校外實習(1) Off-Campus Training(1)					6/											
	校外實習(2) Off-Campus Training(2)							6/									
	校外實習(3) Off-Campus Training(3)									6/							
	小計Subtotal	4/	4	2/	2	12/	6	14/	8	14/	8	4/	4	0/	0	0/	0
	數學演練習作 Math exercises	2/	2														
	生活物理 physics of life			2/	2												
	工業安全衛生 Industrial Safety and Hygiene					2/	2										
	基礎冷凍空調裝修實習 Basic Practice of Refrigeration and Air					4/	4										
	Conditioning																
	半導體概論 Introduction to Semiconductors					2/	2										
	感測與量測原理 Sensing and measurement principles							2/	2								

專業選修課程	電力電子學 Power Electronics				2/ 2				
	電器修護實習 Electrical Appliances Repair Practice				4/ 4				
	電腦軟體應用 Computer Software Application					2/ 2			
	可程式控制與實習 Programmable Logic Control and Practice					2/ 2			
	進階冷凍空調裝修實習 Maintenance & Practice of Refrigeration and Air Conditioning					4/ 4			
	電腦輔助冷凍空調繪圖 Computer Aided Refrigeration and Air Conditioning Drawing					2/ 2			
	太陽能工程 Solar Energy Engineering						2/ 2		
	風力發電 wind power						2/ 2		
	智慧生活應用與實習 Smart Life Application and Practice						4/ 4		
	通風工程 Ventilation Engineering						2/ 2		
	熱傳學 Heat Transfer						2/ 2		
	機電與能源實習 Practice of Mechatronics and Energy						2/ 2		
	空調設計實務 Design Practice of Air Conditioning							2/ 2	
	冷凍空調節能技術 Refrigeration and Air Conditioning Energy-Saving Technology							2/ 2	
	流體機械 Fluid Machinery							2/ 2	
	冷凍空調工程管理 Refrigeration and air conditioning engineering management							2/ 2	
	智慧能源管理技術 Smart Energy Management Technology							2/ 2	
	熱交換設計 Heat exchange design								2/ 2
	冷凍空調系統設計 Refrigeration and air conditioning system								2/ 2
	電腦輔助空調系統分析 Computer Aided Air Conditioning System Analysis								4/ 4
	物聯網應用與實習 Internet of Things Engineering and Network Analysis								2/ 2
	企業實務實習(1) Business Practice(1)						6/		
	企業實務實習(2) Business Practice(2)							6/	
	企業實務實習(3) Business Practice(3)								6/
	小 計Subtotal	2/ 2	2/ 2	8/ 8	8/ 8	10/ 10	20/ 14	16/ 10	16/ 10
	合 計Total	14/ 20	14/ 20	24/ 18	24/ 18	24/ 18	24/ 18	16/ 10	16/ 10

114 年09 月 16 日 校課程發展委員會會議通過

一、畢業總學分至少128學分：

The total number of credits completed to be eligible to graduate shall not be less than 128 credits.

1.校訂必修24學分(含華語基礎必修20學分、通識博雅必修4學分)。課程百分比 54%

The general required credits shall be 24 credits.(20 credits for required basic Chinese courses, and 4 credits for required liberal arts courses.)

2.專業必修50學分(系必修50學分)。

The professional required credits shall be 50 credits. (50 credits for required department courses)

3.系專業選修至少54學分。課程百分比46%

The professional elective credits shall be not less than 54 credits.

二、畢業門檻：Graduation Threshold

學生於修業年限內，應修畢「校訂必修」、「專業必修」、「系專業選修(含一般選修)」共計128學分。

Students are required to complete a total of 128 credits of " Stipulated Compulsory Course", "Professional Compulsory Course", "Department Professional Elective Course", ("General Elective Course" included) within their academic years.