

中信科技大學 進修部
二年制 冷凍空調與能源系 課程規劃表
 (適用114學年度入學)

CTBC University of Science and Technology
 Curriculum of Department of Refrigeration Air Conditioning and Energy
 for Two-Year Bachelor's Degree Program-Night Division (Effective from Fall 2025)

科目名稱 Subject		第一學年1st School Year		第二學年2nd School Year	
		上學期 1st semester	下學期 2nd semester	上學期 1st semester	下學期 2nd semester
		(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)
共同必修 General Required Courses	應用英文(1)(2) Applied English(1)(2)	2/ 2	2/ 2		
	通識課程(1)(2)(3)(4) General Studies(1)(2)(3)(4)	2/ 2	2/ 2	2/ 2	2/ 2
	小 計Subtotal	4/ 4	4/ 4	2/ 2	2/ 2
專業必修 Professional Required Courses	工程圖學 Engineering Drawing	2/ 2			
	熱力學 Thermodynamics	2/ 2			
	電工學 Electricity Engineering	2/ 2			
	冷凍空調原理 Principles of Refrigeration and Air Conditioning	2/ 2			
	能源工程 Energy Engineering		2/ 2		
	流體力學 Fluid Mechanics		2/ 2		
	冷凍工程與設計 Refrigeration Engineering and Design		2/ 2		
	冷凍空調原理實驗 Experiment of Refrigeration and Air Conditioning Principle		2/ 2		
	冷凍空調設備安裝實習 Refrigeration and air conditioning equipment installation internship			2/ 2	
	冷凍空調系統維修實習 Refrigeration and air conditioning system maintenance internship			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 Conditioning			2/ 2	
	小 計Subtotal	8/ 8	8/ 8	8/ 8	0/ 0
專業選修 Professional Elective Courses	冷凍空調基礎技術實習 Basic Refrigeration and Air Conditioning Technology Internship	2/ 2			
	冷凍空調測試與調試實習 Refrigeration and air conditioning testing and commissioning internship	2/ 2			
	程式設計 Programming	2/ 2			
	簡報製作與表達 Presentation and Expression	2/ 2			
	智慧財產權 Intellectual Property Right	2/ 2			
	家電結構與電路實習 Home Appliance Structure and Circuit Practice		2/ 2		
	家電維修與安全檢測實習 Home Appliance Repair and Safety Testing Internship		2/ 2		
	可程式控制實習 Programmable Logic Controller Practice		2/ 2		
	電機機械 Electric Machinery		2/ 2		
	電腦輔助冷凍空調繪圖 Computer Aided Refrigeration and Air Conditioning Drafting			2/ 2	
	感測器應用與實習 Applications and Laboratory Practice of Sensors			2/ 2	
	流體機械 Fluid Machinery			2/ 2	

中信科技大學 進修部
二年制 冷凍空調與能源系 課程規劃表
 (適用114學年度入學)

CTBC University of Science and Technology
 Curriculum of Department of Refrigeration Air Conditioning and Energy
 for Two-Year Bachelor's Degree Program-Night Division (Effective from Fall 2025)

科目名稱 Subject		第一學年1st School Year		第二學年2nd School Year	
		上學期 1st semester	下學期 2nd semester	上學期 1st semester	下學期 2nd semester
		(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)
	熱傳學 Heat Transfer			2/ 2	
	電力電子學 Power Electronics			2/ 2	
	冷凍空調工程管理 Management of Refrigerating and Air Conditioning Engineering			2/ 2	
	空調設計實務 Design Practice of Air Conditioning			2/ 2	
	低溫工程 Cryogenic Engineering			2/ 2	
	冷凍空調節能與控制實習 Refrigeration and air conditioning energy saving and control practice				2/ 2
	冷凍空調診斷與維修實習 Refrigeration and air conditioning diagnosis and maintenance internship				2/ 2
	機電與能源實習 Practice of Mechatronics and Energy				2/ 2
	物聯網應用與實習 IoT Applications and Practice				2/ 2
	冷凍空調節能技術 Energy-Saving Technology in Refrigeration and Air Conditioning				2/ 2
	通風工程 Ventilation Engineering				2/ 2
	太陽能工程 Solar Energy Engineering				2/ 2
	電腦輔助空調系統分析 Computer Aided Air Conditioning System Analysis				2/ 2
	半導體廠務工程 Semiconductor Facility Engineering				2/ 2
	熱交換器設計 Heat Exchanger Design				2/ 2
擬開最低選修學分 Proposed Minimum Elective Credits		6/ 6	6/ 6	8/ 8	16/ 16
合計Total		18/ 18	18/ 18	18/ 18	18/ 18
備註 Note	114年07月08日 校課程發展委員會會議通過Amended Date： 2025-07-08				
	一、畢業總學分至少72分： The total number of credits completed to be eligible to graduate shall not be less than 72 credits. 1.共同必修12學分；專業必修24學分；專業選修至少36學分。 General Required Courses:12 credits. Professional Required Courses:24 credits. Professional Elective Courses: Not less than 36 credits. 2.一般選修至多7學分(開放學生自由選修本系或外系課程)。 The general elective credits shall be up to 7 credits. (Open for students to freely choose courses within their own or other departments) 二、畢業門檻：Graduation threshold 1.學生於修業年限內應修畢「共同必修」、「專業必修」、「專業選修(含一般選修)」共計72學分。 Students are required to complete a total of 76 credits of "General Required Courses", "Professional Required Courses", and "Professional Elective Courses" ("General Elective Course" included) within their academic years. 三、校訂課程 Stipulated Courses： 1.校訂課程不須依先後順序修課，不得互抵者，包括「應用英文(1)(2)、通識課程(1)(2)(3)(4)」課程。 Stipulated courses are not required to be taken in sequence and the credits shall not be mutually transferred, including 「Applied English(1)(2) and General Studies(1)(2)(3)(4)」 courses.				