

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113學年度入學)

CTBC university of technology Curriculum of Refrigeration Air Conditioning and Energy Department for Two-Year Bachelor's Degree Program-Night Division (Effective from Fall 2024)

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		
	冷凍空調裝修實習 Maintenance & Practice of Refrigeration and Air Conditioning			4/ 4	
	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	
專業選修 Professional Elective Courses	基礎冷凍空調裝修實習 Basic Maintenance & Practice of Refrigeration and Air Conditioning	4/ 4			
	簡報製作與表達 Presentation and Communication Skills	2/ 2			
	智慧財產權 Intellectual Property Right	2/ 2			
	電器修護實習 Electric RepAiring Practice		4/ 4		
	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			4/ 4	
	流體機械 Fluid Machinery			2/ 2	
	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	

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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)
	空調設計實務 Design Practice of Air Conditioning			2/ 2	
	低溫工程 Cryogenic Engineering			2/ 2	
	進階冷凍空調裝修實習 Advanced Maintenance & Practice of Refrigeration and Air Conditioning				4/ 4
	機電與能源實習 Practice of Mechatronics and Energy				4/ 4
	智慧生活與物聯網實習 Smart living and practical training of Internet of Thing				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	112年05月23日 校課程發展委員會會議通過Amended Date：2023-05-23				
	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.				

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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		
	冷凍空調裝修實習 Maintenance & Practice of Refrigeration and Air Conditioning			4/ 4	
	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	
專業選修 Professional Elective Courses	基礎冷凍空調裝修實習 Basic Maintenance & Practice of Refrigeration and Air Conditioning	4/ 4			
	簡報製作與表達 Presentation and Communication Skills	2/ 2			
	智慧財產權 Intellectual Property Right	2/ 2			
	電器修護實習 Electric Repairing Practice		4/ 4		
	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			4/ 4	
	流體機械 Fluid Machinery			2/ 2	
	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	

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	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)
進階冷凍空調裝修實習 Advanced Maintenance & Practice of Refrigeration and Air Conditioning				4/ 4
機電與能源實習 Practice of Mechatronics and Energy				4/ 4
智慧生活與物聯網實習 Smart living and practical training of Internet of Thing				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
小 計Subtotal	4/ 4	8/ 8	16/ 16	22/ 22
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	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.			

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CTBC university of technology Curriculum of Refrigeration Air Conditioning and Energy Department for Two-Year Bachelor's Degree Program-Night
Division (Effective from Fall 2024)

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	3/ 3			
	熱力學 Thermodynamics	3/ 3			
	電工學 Electricity Engineering	3/ 3			
	能源工程 Energy Engineering		3/ 3		
	流體力學 Fluid Mechanics		3/ 3		
	冷凍工程與設計 Refrigeration Engineering and Design		3/ 3		
	空調工程與設計 Air Conditioning Engineering and Design			3/ 3	
	冷凍空調自動控制 Automatic Control of Refrigeration and Air Conditioning			3/ 3	
	小 計Subtotal	9/ 9	9/ 9	6/ 6	/ 0
	專業選修 Professional Elective Courses	簡報製作與表達 Presentation and Communication Skills	2/ 2		
電器修護實習 Electric Repairing Practice		3/ 3			
智慧財產權 Intellectual Property Right		2/ 2			
電機機械 Electric Machinery			2/ 2		
冷凍空調裝修實習 Maintenance & Practice of Refrigeration and Air Conditioning			3/ 3		
可程式控制實習 Programmable Logic Controller Practice			3/ 3		
流體機械 Fluid Machinery				2/ 2	
熱傳學 Heat Transfer				2/ 2	
進階冷凍空調裝修實習 Advanced Maintenance & Practice of Refrigeration and Air Conditioning				3/ 3	
冷凍空調原理實驗 Experiment of Refrigeration and Air Conditioning Principle				3/ 3	
電力電子學 Power Electronics				3/ 3	
冷凍空調工程管理 Management of Refrigerating and Air Conditioning Engineering				3/ 3	
太陽能工程 Solar Energy Engineering					2/ 2

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		(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)	(學分/時數) (Credits/Hours)
通風工程 Ventilation Engineering				2/ 2	
空調設計實務 Design Practice of Air Conditioning				3/ 3	
電腦輔助冷凍空調繪圖 Computer Aided Refrigeration and Air Conditioning Drafting				3/ 3	
機電與能源實習 Practice of Mechatronics and Energy				3/ 3	
冷凍空調節能技術 Energy-Saving Technology in Refrigeration and Air Conditioning				3/ 3	
電腦輔助空調系統分析 Computer Aided Air Conditioning System Analysis				3/ 3	
智慧生活與物聯網實習 Smart living and practical training of Internet of Thing				3/ 3	
小 計Subtotal	7/ 7	8/ 8	16/ 16	22/ 22	
擬開最低選修學分 Proposed Minimum Elective Credits	5/ 5	5/ 5	10/ 10	16/ 16	
合計Total	18/ 18	18/ 18	18/ 18	18/ 18	
備註 Note	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.				
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備註 Note	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.				