

中臺科技大學大學部四年制日間部環境與安全衛生工程系114學年度入學課程標準表(國際學生產學合作專班)  
 Central Taiwan University of Science and Technology Undergraduate 4-Year Daytime Program Department of  
 Safety Health and Environmental Engineering Curriculum Standards for the 114<sup>th</sup> Academic Year (International  
 Student Industry-Academia Collaboration Program)

1140306 系課程委員會會議通過  
 1140311 院課程委員會會議通過  
 1140319 校課程委員會會議通過  
 1140912 系課程委員會會議通過  
 1141007 院課程委員會會議通過  
 1141015 校課程委員會會議通過  
 1141030 系課程委員會會議通過  
 1141119 教務會議通過  
 1141226 系課程委員會會議通過  
 1150317 院課程委員會會議通過

學年 Academic Year	科目 Course	學分數 Credits	時數 Teaching hours	上學期		下學期		備註 Remarks
				First Semester		Second Semester		
				授課 Teaching	實習 Internship	授課 Teaching	實習 Internship	
<b>校訂必修(28學分) School-developed Required Courses (28 Credits)</b>								
第一學年 1 <sup>st</sup> Academic Year	華語課程(一) Chinese Language (I)	3	6	6				
	應用華語(一) Applied Chinese (I)	2	4	4				
	大一英文(一) Freshman English (I)	2	2	2				
	體育(一) Physical Education (I)	1	2	2				
	華語課程(二) Chinese Language (II)	3	6			6		
	應用華語(二) Applied Chinese (II)	2	4			4		
	大一英文(二) Freshman English (II)	2	2			2		
	體育(二) Physical Education (II)	1	2			2		
第二學年 2 <sup>nd</sup> Academic Year	進階華語(一) Advanced Chinese Language (I)	2	2	2				
	資訊科技與AI應用 Information Technology and AI Application	2	2	2				電腦課程 Computer Course
	自然領域 Natural Studies	2	2	2				
	進階華語(二) Advanced Chinese Language (II)	2	2			2		
	文化領域 Cultural Studies	2	2			2		
	社會領域 Social Studies	2	2			2		
<b>專業必修(56學分) Professional Required Courses (56 Credits)</b>								
<b>核心基礎(24學分) Core Foundations (24 Credits)</b>								
第一學年 1 <sup>st</sup> Academic Year	普通化學 General Chemistry	2	2	2				
	化學實驗 General Chemistry Laboratory	2	2	2				
	微積分 Calculus	3	3	3				
	工程倫理 Engineering Ethics	1	1	1				定錨課程 Anchoring Course
	環境工程概論 Introduction to Environmental Engineering	2	2	2				
	工業安全 Industrial Safety	2	2	2				
	工業衛生 Industrial Hygiene	2	2			2		
	噪音與振動 Noise and Vibration	2	2			2		
	電工學 Electrical Engineering	2	2			2		
	流體力學 Fluid Mechanics	3	3			3		
	能源科技 Energy Technology	3	3			3		
<b>核心專業(32學分) Core Professional Courses (32 Credits)</b>								
第二學年 2 <sup>nd</sup> Academic Year	統計學 Statistics	2	2	2				電腦課程 Computer Course
	電腦圖學與實作 Computer Aided Design and Graphing and Operating	2	2	2				電腦課程 Computer Course
	低碳管理 Low Carbon Management	2	2	2				
	火災學 Fire Dynamics	2	2	2				

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第二學年 2 <sup>nd</sup> Academic Year	職業安全衛生法規 Occupational Safety and Health Act	2	2	2				
	作業環境測定 Monitoring of Working Environment	<u>2</u>	<u>2</u>	<u>2</u>				
	水質分析 Water and Wastewater Analysis	2	2			2		
	水質分析實驗 Water and Wastewater Analysis Laboratory	2	<u>2</u>			<u>2</u>		
第三學年 3 <sup>rd</sup> Academic Year	實務實習(一) Practical Training (I)	<u>8</u>	<u>32</u>		<u>32</u>			校外實習576小時 Off-Campus Internship Duration: 576 hours
	實務實習(二) Practical Training (II)	<u>8</u>	<u>32</u>				<u>32</u>	校外實習576小時 Off-Campus Internship Duration: 576 hours
<b>專業選修(62學分) Professional Electives Courses (62 Credits)</b>								
第二學年 2 <sup>nd</sup> Academic Year	污水工程 Wastewater Engineering	<u>2</u>	<u>2</u>	<u>2</u>				
	空氣污染控制 Air Pollution Control	<u>2</u>	<u>2</u>	<u>2</u>				
	工業通風 Industrial Ventilation	2	2	<u>2</u>				
	廢棄物處理與設計 <u>Waste Treatment and processes design</u>	<u>2</u>	<u>2</u>			<u>2</u>		
	AI在環安衛的應用 Application of AI in Safety, Health and Environmental Engineering	2	2			<u>2</u>		AI課程 AI Course
	勞動檢查實務 Practice of Workplace Inspection	2	2			<u>2</u>		
	人因工程 Ergonomics	2	2			<u>2</u>		
	風險評估 Risk Assessment	2	2			<u>2</u>		
	施工安全 Construction Safety	2	2			<u>2</u>		
第三學年 3 <sup>rd</sup> Academic Year	環境規劃管理 Environmental Planning and Management	2	2	2				
	工業安全管理 Industrial Safety Management	2	2	<u>2</u>				
	<u>化學品安全實作 Chemical Safety Practice</u>	<u>8</u>	<u>16</u>	<u>16</u>				
	防火防爆 Fire and Explosion Prevention	2	2			<u>2</u>		
	<u>永續發展導論 Introduction to Sustainable Development</u>	<u>2</u>	<u>2</u>			<u>2</u>		
	<u>機械安全實作 Machine Safety Practice</u>	<u>8</u>	<u>16</u>			<u>16</u>		
第四學年 4 <sup>th</sup> Academic Year	專業實習(一) Specialty Training (I)	<u>9</u>	<u>40</u>		<u>40</u>			校外實習720小時 Off-Campus Internship Duration: 720 hours
	化學品安全 Chemical Safety	<u>3</u>	<u>3</u>	<u>3</u>				
	施工架作業暨施工計畫書撰寫實作 Scaffold Set Up Practice and Construction Planning	<u>3</u>	<u>3</u>	<u>3</u>				
	工業安全工程 Industrial Safety Engineering	<u>3</u>	<u>3</u>	<u>3</u>				
	專業實習(二) Specialty Training (II)	<u>9</u>	<u>40</u>				<u>40</u>	校外實習720小時 Off-Campus Internship Duration: 720 hours
	環境污染物分析 Analysis of Environmental Pollutants	<u>3</u>	<u>3</u>			<u>3</u>		
	環境工程單元操作 Unit Operations in Environmental Engineering	<u>3</u>	<u>3</u>			<u>3</u>		
	作業環境控制工程 Environmental Control for Working Place	<u>3</u>	<u>3</u>			<u>3</u>		
<b>第一學年小計(1) 1<sup>st</sup> Academic Year Credits Subtotal (1)</b>		40	52	26	0	26	0	
<b>第二學年小計(2) 2<sup>nd</sup> Academic Year Credits Subtotal (2)</b>		46	46	24	0	22	0	
<b>第三學年小計(3) 3<sup>rd</sup> Academic Year Credits Subtotal (3)</b>		40	104	20	32	20	32	
<b>第四學年小計(4) 4<sup>th</sup> Academic Year Credits Subtotal (4)</b>		36	98	9	40	9	40	
<b>合計 Total = (1)+(2)+(3)+(4)</b>		162	300	79	72	77	72	

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<b>畢業規定及其他相關說明：</b> <b>Graduation Requirements and Other Relevant Instructions</b>								
一	<p>最低畢業學分為128學分，必修84學分【含校訂必修28學分、專業必修56學分】，選修至少44學分（其中專業選修至少34學分）。</p> <p>The minimum graduation requirement is 128 credits, including mandatory 84 credits [ school-developed required courses 28 credits, and mandatory professional 56 credits]. Elective credits must be at least 44 credits [ with a minimum number of 34 credits for professional electives].</p>							
二	<p>畢業前須修習健康科學院院定共同課程：統計學「Statistics」2學分，需有修讀紀錄且及格，始得畢業。</p> <p>Prior to graduation, students must complete the core course "Statistics" designated by the College of Health Science, which is worth 2 credits. Completion record and passing grade are required for graduation.</p>							