

明志科技大學四技日間部113學年度入學 環境與安全衛生工程系 課程總表

Ming Chi University of Technology 「2024 SchoolYear」 Department of Safety, Health and Environmental Engineering Curriculum

113/10/08校課程委員會會議通過

113/06/09院課程委員會會議通過

113/04/11系課程委員會會議通過

Examination at School Curriculum Committee Meeting on June 18, 2024

Examination at College Curriculum Committee Meeting on June 6, 2024

Examination at Department Curriculum Committee Meeting on April 11, 2024

		科目名稱 Course Name	一上 Grade 1 First Semester		一下 Grade 1 Second Semester		二上 Grade 2 First Semester		二下 Grade 2 Second Semester		三上 Grade 3 First Semester		三下 Grade 3 Second Semester		四上 Grade 4 First Semester		四下 Grade 4 Second Semester		選課 條件 Course Selection Conditions	每班人數 Number of Class		備註 Remarks				
			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		上限 Upper Limit	下限 Lower Limit					
共同 (42學分)	基礎課程 (22學分) Basic Course (22 Credits)	文學鑑賞與情感表達(Appreciation of Literature and Emotional Expression)	2	2																						
		永續發展與社會實踐(Sustainable Development and Social Practice)	1	1																						
		生活與職場英文(English for Life and Business)	3	3	3	3																				
		全民國防教育軍事訓練(All-out Defense Education Military Training)	0.5	2	0.5	2																				
		體育(Physical Education)	1	2	1	2	1	2	1	2																
		藝文進修與社會參與(Art Literacy and Social Participation)	1	2	2	2																				
		歷史思維與多元文化參與(Historical Thinking and Multicultural Studies)			2	2			2	2																
		英語聽力(Aural-Oral English)					1	2	1	2							1	2	1	2						
		英文實務(一)(二)(Practical English)																								
		合計 Total			7.5	10	6.5	9	4	6	2	4	0	0	0	0	0	1	2	1	2			50		
Common Compulsory (Requires 42 Credits)	核心課程 (2學分) Core Course (2 Credits)	大學之遙(The Goal of University Education)	1	2																						
		設計思考(Design Thinking)			1	1																				
		合計 Total	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0			2			
		校共同課程 (18學分) Common School Course (18 Credits)	實習前導素養訓練(Pre-orientation Prior to Practical Training)									1	1													
		工讀實務實習(一)(Practical Training Curriculum (1))										4														
		工讀實務實習(二)(Practical Training Curriculum (2))											4													
		工讀實務實習(三)(Practical Training Curriculum (3))												4												
		工讀實務實習(四)(Practical Training Curriculum (4))													5											
		合計 Total	0	0	0	0	0	0	0	0	1	1	17	0	0	0	0	0	0				18			
Compulsory	院專業必修 (0學分) College Professional Compulsory (0 Credits)	環資學院未開設共同必修課程 College does not offer compulsory courses																								
		合計 Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0			
		專業 (59學分) Department Professional (Requires 59 Credits)	系專業必修 (59學分) Department Professional Compulsory (Requires 59 Credits)	普通化學(General Chemistry)	3	3																				
				普通物理(General Physics)	3	3																				
				工業安全(Industrial Safety)	2	2																				
				電腦在環境工程上的應用(Application of Computer on Environmental Engineering)	1	3																				
				微積分(Calculus)	3	3	3	3																		
				普通化學實驗(General Chemistry Experiment)			3	3																		
				有機化學(Organic Chemistry)			2	2																		
				工業衛生(Industrial Hygiene)			2	2																		
質量平衡(Mass and Energy Balances)					2	2																				
工程數學(一)(Engineering Mathematics (1))							3	3																		
工程統計與語言(Engineering Statistics and Programming Language)					3	3																				
		流體力學(Fluid Mechanics)			2	2																				
		物理化學(Physical Chemistry)			2	2																				
		環境科學與工程概論(Introduction to Environmental Science and Engineering)			3	3	3	3																		
		環境微生物學(Environmental Microbiology)					3	3																		
		環境化學(Environmental Chemistry)					3	3																		
		水質分析實驗(Water Analysis Experiment)						1	2																	
		實務專題研究(Special Projects Research)			1	2	1	2							1	2										
		環境微生物學實驗(Environmental Microbiology Experiment)													1	2										
		作業環境監測(Workplace Monitoring)													3	3										
		儀器分析及實驗(Instrumental Analysis and Laboratory Experiment)													3	3										
		環境監測實驗(Environmental Monitoring Experiment)														1	2									
		工程倫理與實務專題(Special Topics on Engineering Ethics and Practice)													1	3										
		環境工程單元操作實驗(Experiments of Unit Operations on Environmental Engineering)															1	2								
		合計 Total	12	14	10	12	14	15	11	13	8	10	0	0	3	7	1	2					59			
Common Elective (Requires at least 8 Credit)	選課選修 Elective General Education courses	一、開學前請參閱「選課課程表」。 二、選課選修至少8學分(五類型，任選四類各2學分)。 1. For the course list, please refer to the "General Education Course Curriculum Table" 2. At least 8 credits from elective General Education courses (choose four categories from the given five categories; 2 credits for each category)																								
		合計 Total																								
Elective	院專業選修 (開設5學分) College Professional Elective (5 Credits)	基石專題(Cornerstone project)			1	3																				
		頂石專題(Capsule project)									1	3														
		尚未充實綠色的環境應用(Green application of nano-photocatalysis)							3	3																
		合計 Total	0	0	1	3	0	0	3	3	1	3	0	0	0	0	0	0	0				5			
		Department Professional Elective (Requires at least 39 Credits)	系專業選修 (開設9學分) Department Professional Elective (Requires at least 39 Credits)	綠色能源概論(Introduction to Green Energy)			3	3																		
				避難系統(Refuge and Escape Equipments)			2	2																		
				公共場所消防安全設備(Public System Fire Safety Equipments)			3	3																		
				火災動力(Air Introduction to Fire Dynamics)			3	3																		
				消防法規(Fire Regulations)			2	2																		
				化學系統消防安全設備(Cheical System Fire Safety Equipments)			3	3																		
警報系統(Fire Alarm Equipments)					3	3																				
工程圖學(Engineering Graphics)					3	3																				
噪音與振動(Noise and Vibration)							3	3																		
施工安全(Construction Safety)							3	3																		
		工業與環境毒物學(Industrial and Environmental Toxicology)					3	3																		
		職業安全衛生技術特論(Special topic of occupational safety and health technology)					3	3																		
		職業安全衛生法規(Occupational Safety and Health Regulations)					3	3																		
		人體工程(Human Factors Engineering)								3	3															
		廢棄物與固體廢棄物處理(Waste Treatment and Disposal)								3	3															
		工業通風(Industrial Ventilation)								3	3															
		風險評估(Risk Assessment)								3	3															
		職業安全管理(專業選修遠距教學)(Occupational Safety Management)										3	3									遠距教學Distance learning				
		熱處理技術(專業選修遠距教學)(Thermal Treatment Technology)										3	3									遠距教學Distance learning				
		環境規劃管理(Environmental Planning and Management)													3	3										
		空氣污染防治(Fundamentals of Air Pollution)													3	3										
		環境保護法規(Environmental Protection Regulations)													3	3										
		防火工程(Fire Protection Engineering)													3	3										
		污水工程(Wastewater Engineering)													3	3										
		大數據分析在環境工程上的應用(The Application of Data Mining in the Environmental Engineering)													3	3										
		廢棄物資源化工程(Waste Resourceization Engineering)														3	3									
		下水道工程設計(Sewer Engineering Design)																								