

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

1140304校課程委員會會議審議通過
1140321院課程委員會會議審議通過
1140316系課程委員會會議審議通過
Examination at School Curriculum Committee Meeting on March 4, 2025
Examination at College Curriculum Committee Meeting on February 21, 2025
Examination at Department Curriculum Committee Meeting on January 16, 2025

		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																				
必修 Compulsory	共同 (42 學分) Common Compulsory (Requires 42 Credits)	文學鑑賞與情意表達(Appealation 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																															
		國文與社會參與(Literacy and Social Participation)			2	2																																			
		歷史思維與多元文化理解(Historical Thinking and Multicultural Studies)					2	2																																	
		英語聽講(Aural-Oral English)					2	2	1	2																															
		英文實踐(14-17)Practical English)							1	2	1	2																													
		合計 Total	7.5	19	6.5	9	4	6	2	4	0	0	0	0	1	2	1	2	20																						
		核心課程 (2學分) Core Course (2 Credits)	大學之道(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	2																						
校共同課程 (8學分) Common School Course (8 Credits)	多元學習前素訓練課程(Retrinary Literacy Training for Multimodal Learning)										1	1																													
	多元學習模組一)(Multimodal Learning Module I)												4	40																											
	多元學習模組二)(Multimodal Learning Module II)												4	40																											
	多元學習模組三)(Multimodal Learning Module III)												4	40																											
	多元學習模組四)(Multimodal Learning Module IV)												5	40																											
	合計 Total	0	0	0	0	0	0	0	0	1	1	17	160	0	0	0	0	18																							
專業 (59 學分) Department Professional Compulsory (Requires 59 Credits)	院專業必修 (學院) College Professional Compulsory (40 Credits)	該專業學院未開設必修課程 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																							
	系專業必修 (19學分) Department Professional Compulsory (Requires 19 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)			1	3																																			
		有機化學(Organic Chemistry)			2	2																																			
		工業衛生(Industrial Hygiene)			2	2																																			
		質量均衡(Mass and Energy Balance)			2	2																																			
		工程數學一)(Engineering Mathematics (1))					3	3																																	
		工程統計與程式語言(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)			2	2	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																																	
		實驗專題研究(Special Project Research)			1	2	1	2	1	2					1	2																									
		環境微生物實驗: Environmental Microbiology Experiment)							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																										
環境工程倫理與實務專題(Special Topics on Environmental Engineering Ethics and Practice)														1	2																										
合計 Total	12	14	10	12	14	15	11	13	8	10	0	0	3	7	1	2	30																								
選修 Elective	共同 (至少修5學分) Common Elective (Requires at least 5 Credits)	通識選修 Elective General Education courses	一、 閱讀清單請參考「通識課程表」。 二、 通識選修至少 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).																																						
		院專業選修 (開設5學分) College Professional Elective (5 Credits)	基石專題(Cementstone project)			1	3																																		
		基石專題(Cementstone project)												1	3																										
		奈米光觸媒的綠色環境應用(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	4																					
		系專業選修 (開設10學分) Department Professional Elective (Requires at least 10 Credits)	綠色能源概論(Introduction to Green Energy)	3	3																																				
			避難系統(Refuge and Escape Equipments)	2	2																																				
			水系統消防安全設備(Water System Fire Safety Equipments)	3	3																																				
			火災預防Introduction to Fire Dynamics)	3	3																																				
			淨零碳排導論(Introduction to Net-Zero Carbon Emissions)	2	2																																				
			消防法規(Fire Regulations)					2	2																																
			化學系統消防安全設備(Chemical System Fire Safety Equipments)					3	3																																
			警報系統(Fire Alarm Equipments)					3	3																																
			工程圖學(Engineering Graphics)					3	3																																
			聲音與振動(Sound and Vibration)					3	3																																
			施工安全(Construction Safety)					3	3																																
			循環經濟導論(Introduction to Circular Economy)					2	2																																
			工業環境衛生學(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																														
			人因工程(Human Factors Engineering)									3	3																												
			廢棄物處理(Waste Treatment and Disposal)							3	3																														
			工業廢氣(Industrial Ventilation)							3	3																														
			碳源評估(Carbon Assessment)							3	3																														
			職業安全衛生專業實務專題教學(Practical Applications of Occupational Safety Management)									3	3																												
			職業安全衛生專業實務專題教學(Occupational Safety Management)											3	3																										
			熱處理技術(專業實務專題教學)(Thermal Treatment Technology)													3	3																								
			環境規劃管理(Environmental Planning and Management)															第1階段/Stage 1																							
			環境保護(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																						
			數據分析在環境工程上的應用(The Application of Data Mining in the Environmental Engineering)															3	3																						
			廢棄物分析實驗(Waste Analysis Experiment)															1	2																						
			廢棄水資源化工程(Waste Water Resourceization Engineering)																	3	3																				
下水道工程設計(Sewer Engineering Design)																		3	3																						
工程數學二)(Engineering Mathematics (2))																			3	3																					
室內空氣品質控制(Indoor Air Quality)																				3																					
溫室氣體減量與管理(Greenhouse Gas Reduction and Management)																				3																					
土壤碳匯下不同形態碳匯論(Introduction to Soil and Greenhouse Pollution Remediation)																				3																					
淨零碳排與綠色環境應用(Net-Zero Technology and Green Environment Management)																				3																					
合計 Total	13	13	11	11	8	8	9	9	15	15	6	6	19	20	21	21	102																								