明志科技大學四技日間部114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 校課程委員會議審議通過 113/06/06院課程委員會議審議通過 113/04/11 条課程委員會議審議通過 113/04/11 条課程委員會議審議通過 Examination at School Curriculum Committee Meeting on June 6,2024 Examination at College Curriculum Committee Meeting on June 6,2024 nination at Department Curriculum Committee Meeting on April 11,2024

			科目名稱	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	每班人數 Number of Class		t Curriculum Committee Meeting on April 11,2024 備註
			Course Name	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 時數 Credits Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	Course Selection Conditions	上限 Upper Limit	下限 Lower Limit	Remarks
			文學鑑賞與情意表達(Appreciation of Literature and Emotional Expression) 未續發展與社會實踐(Sustainable Development and Social Practice) 生活與職場英文(English for Life and Business)	2 1 3	2 1 3	3	3															
		基礎課程 (22學分)	全民國防教育軍事訓練(All-out Defense Education Military Training) 體育(Physical Education)	0.5	2	0.5	2	1	2	1	2											
	共同へ	Basic Course	藝文涵養與社會參與(Art Literacy and Social Participation)	1	2	2	2			1	2											
		(22Credits)	歷史思維與多元文化領域(Historical Thinking and Multicultural Studies) 英語聽講(Aural-Oral English)					2	2	1	2											
	42 學		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	1	2	1	2	22	50		
	Common Compulsory (Requires 42 Credits)	核心課程 (2學分)	大學之道(The Goal of University Education)	1	2																	
		Core Course	設計思考(Design Thinking)			1	1															
		(2 Credits)	合計 Total 實習前職場素養訓練(Professionlism Prior to Practical Training)	1	2	1	1	0	0	0	0	0	0	0 0	0	0	0	0	2			
		校共同課程 18學分)	工讀實務實習(一)(Practical Training Curriculum (1))									1	1	4								
		Common	工讀實務實習(二)(Practical Training Curriculum (2)) 工讀實務實習(三)(Practical Training Curriculum (3))											4								
		School Course (18 Credits)	工讀實務實習(四)(Practical Training Curriculum (4)) 合計 Total	0	0	0	0	0	0	0	0	1	1	5 17 0	0	0	0	0	18			
		院專業必修 (0學分)																				
必修		(0年力) College	環資學院未開設共同必修課程 College does not offer compulsory courses																			
Compulsory	,	Professional Compulsory																				
		(0 Credits)	合計 Total 普通化學(General Chemistry)	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0			
		系專業必修 (49學分) Department	工業安全(Industrial Safety) 電腦在環境工程上的應用(Application of Computer on Environmental Engineering)	2	2																	模組A
	專業		微積分(Calculus)	3	3	3	3															
	乗(49 學 分)		普通化學實驗(General Chemistry Experiment) 有機化學(Organic Chemistry)			2	2															
			工業衛生(Industrial Hygiene) 質能均衡(Mass and Energy Balances)			2	2		\vdash													模組A
			工程數學(一)(Engineering Mathematics (1)) 工程統計與程式語言(Engineering Statistics and Programming Language)					3	3													
	Professional Compulsory		流體力學(Fluid Mechanics)					2	2													
	(Requires 59 Credits)	Professional Compulsory (59 Credits)	物理化學(Physical Chemistry) 環境科學與工程概論(Introduction to Environmental Science and Engineering)					2	2	2	2											模組B、模組C
			環境微生物學(Environmental Microbiology) 環境化學(Environmental Chemistry)						\vdash	2	2											模組C
			水質分析實驗(Water Analysis Experiment) 實務專題研究(Special Projects Research)					1	2	1	2	1	2		1	2.						
			環境微生物學實驗(Environmental Microbiology Experiment)								2	1 3	2		-							模組C
			儀器分析及實驗(Instrumental Analysis and Laboratory Experiment) 工程倫理與實務講座(Special Topics on Engineering Ethics and Practice)									3	3		1	2						快組し
			環境工程單元操作實驗(Experiments of Unit Operations on Environmental Engineering) 合 計 Total	9	10	10	11	13	14	9	11	5	7	0 0	2	4	1	2	49			
遷 修 Elective	共同 (至少應修畢8		一、開課消冊請參考「通識課程彙總表」。																			
	學分) Common Elective (Requires at least 8 Credits)	通識選修 Elective General Education courses	二、通識選修至少8學分(五類型,任選四類各2學分)。																			
			 Por the course list, please refer to the General Education Course Curriculum Table 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	基石專題(Comerstone project)			1	3		\Box													
		(開設5學分) College Professional Elective (5 Credits)	頂石專題(Capstone 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	5			
			普通物理(General Physics) 淨零碳排導論(Introduction to Net-Zero Carbon Emissions)	3	3																	模組B
			錄色能源概論(Introduction to Green Energy) 工程圖學(Engineering Graphics)			3	3															模組B
	専業(應		嗓音與振動(Noise and Vibration) 施工安全(Construction Safety)					3	3													模組A 模組A
			循環經濟導論(Introduction to Circular Economy)					2	2	2	2											模組C
	修 単		工業與環境審物學(Industrial and Environmental Toxicology) 職業安全衛生技術特論(Special topic of occupational safety and health technology)							3	3											模組A 模組A
	至少		職業安全衛生法規(Occupational Safety and Health Regulations) 溫室氣體減量與管理(Greenhouse Gas Reduction and Management)							2												模組A 模組B、模組C
	49 學	系專業選修	作業環境監測(Workplace Monitoring) 廢棄物處理(Solid Waste Treatment and Disposal)									2	2						-			模組A 模組B、模組C
	分	(開設76學分) Department Professional Elective	1988年(1980年) (West June 1980 June 1980									3	3 2									模組B
	Professional Elective (Requires at least 39 Credits)		熱處理技術(專業選修遠距教學)(Thermal Treatment Technology)										L	3 3								
		(91 Credits)	環境規劃管理(Environmental Planning and Management) 空氣污染防制(Fundamentals of Air Pollution)												3	3						模組B、模組C 模組B
			環境保護法規(Environmental Protection Regulations) 污水工程(Wastewater Engineering)												3	3						模組B 模組B、模組C
			2775-1: The Washington Anglaceting												3	3 2						模組C
			廢棄物資源化工程(Waste Resourcization Engineering)												1		3	3				模組C
			下水道工程設計(Sewer Engineering Design) 工程數學(二)(Engineering Mathematics (2))														3	3				
			土壤與地下水污染整治概論(Introduction to Soil and Groundwater Pollution Remediation) 室內空氣品質(Indoor Air Quality)							\vdash							3	3				模組B
			注意	5	5	6	6	R	8	10	10	10	10	3 3	16	17	3	3	76			模組B
1	<u>. </u>	ı	LI BI TAM	-				U	- 0	10	10	10	10		10	- 17	10	10	70			

- 能 1 修事第二專長學分學程者:最低單業學分結構測整為共同必修42學分,通識題修至少8學分伍類型,任選四類各2學分),專業必修49學分,專業選修49學分,合計148學分;已修畢之第二專長學分學程外系學分,採計為系專業選修學分。 2 修事時領域學分學程者:最低單業學分結構測整為共同必修42學分,通識證修至少8學分伍類型,任選四類各2學分),專業必修49學分,專業逐修49學分,合計148學分;已修畢之跨領域學分學程外系學分,採計為系專業選修學分。 3 已申請環境資學院實務齊英班者,須符合菁英班名項畢業學分學更其且修事等班正化工或材料或理安衛專業遷修至少30學分。 4 「工讀實務實習(一)-(四)」及「工讀自學來文」為自學分。一至二年年級,另不可壓修建和學分。 5 經學期提與上限為 27 學分,一至二年年來了,為自學分。一至四年級不得少於9學分。 6 三上課程每期以40倍時數上課,以補足理數。 7 專業畢業門檻:取得本系專業能力畢業門權及輔導更點所訂定之專業證照。 8 已修單之業學學分學程形必要終學分科技英文除外,採計為系專業題修學分。 9 必修體育(三) 體育(四),於大二至大四,採興趣運項數學。 10 系上學程模組分為職業安全衛生管理(模組A)、淨零碳排與永續管理跨領域學分學程(模組B)、循環經濟跨領域學分學程(模組C)。其中職業安全衛生管理(模組A)專業必修4學分,專業遷修六門課程遷修五門課程。其他模組需修滿合作科系專業課程6學分,專業核心課程14學分。 acts Course Catalog Remarks

 1 Students who have completed a second-specialization credit program: The minimum graduation credit structure is adjusted as follows: 42 credits from common required courses, at least 8 credits from elective General Education courses (choose four categories; 2 credits for each category), and 49 credits from major required, 49 credits from elective courses, totaling 148 credits in all. Completed a second-specialization credit program credit seamed from other departments are calculated as the Department's major elective credits.
 - 2 Students who have completed an interdisciplinary credit program: redit program credit seamed from other departments are calculated as the Department's major elective courses, totaling 148 credits in all. Completed interdisciplinary credit program: The minimum graduation credit stroucher is adjusted as follows: 42 credits from common required courses, at least 8 credits from elective General Education courses (choose four categories from the given five categories; 2 credits for each category), and 49 credits from major required, 49 credits from elective courses, totaling 148 credits in all. Completed interdisciplinary practical Elite Program, College of Environment and Resources, must complete at least 30 credits from elective courses, for Materials Engineering/Chemical Engineering/Safety, Health and Environmental Engineering.

 4 Practical Training Curriculum (1)-(4) and Self-Study English During Vocational Practice are major required courses, cond semester of Grade 3. Students can also take distance learning courses for elective credits.

 5 The upper limit of course selection per semester is 27 credits, with no less than 16 credits for the first- and second- grade students and no less than 9 credits for the third- and fourth- grade students.

 6 The courses for first semester of the third-grade will be held at 4/3 times the number of hours per week to make up the number of bows per week.

 7 Students are required to to obtain at least on excritinate as specifically by the Regulations Governing Graduation Thresholds Governing Graduation Thresholds of Pofessional Competence of Department of Safety, Health and Environmental Engineering.

 8 The compulsorylelective credits of the Honor Credit Program of CER College completed shall be included as department professional elective except for "Technical English".

 9 Students are required to take Physical Education (III) and Physical Education (IV). PE courses can be selected based on students' interest in their second to fourth yeas.

 10 The department's program modules