## 明志科技大學四技部 113 學年度入學 化學工程系 課程總表 Ming Chi University of Technology <sup>「2024</sup> SchoolYear」 Department of Chemical Engineering

114/03/04校課程委員會議通過 114/02/21陈課程委員會議通過 114/02/17陈課程委員會議通過 Examination at School Curriculum Committee Meeting on March 4,2025 Examination at College Curriculum Committee Meeting on February 21,2025 Samination at Postutinen Curriculum Committee Meeting on February 17,2025

March   Marc	Committee Meeting on February 17,2	nent Curricului					m =	_	上	四	-	-	- 1	-	т.		L	-	т	l —	L				
Column	備註				條件		ade 4	Gra	de 4	Grad	ide 3	Gra	ade 3	Gra	de 2	Gra	de 2	Gra	de 1	Grad	de 1	Gra			
Mathematical Content of Math	Remarks		Lower	Upper	irse Selection	數																			
## SEMICATES AND ALTO CONTROLLAR   1			Limit	Limit		urs	nours	Credits	nours	Credits	Hours	Credits	nours	Credits	nours	Credits	nours	Credits	nours	Credits			nal		tr
Column   C						1													3	3			Practice)	永續發展與社會實踐 (Sustainable Development and Social Practice) 生活與聯場英文(Epolish for Life and Business )	礎課
Company   Comp						+									2	1	2	1	2	0.5	2	0.5	Training)	全民國防教育軍事訓練(All-out Defense Education Military Training)	程開
March   Marc						+																	ural Studies)	藝文涵養與社會參與(Art Literacy and Social Participation) 歷史思維與多元文化領域(Historical Thinking and Multicultural Studies	20 學
Company   Comp						:	2	1	2	1					2	1	2	1						英語聽講(Aural-Oral English)	Basic Course
## Minimum						!	2	1	2	1	0	0	0	0	6	4	4	2	9	6.5				合 計Total	
## Market and State American State																								urse 設計思考(Design Thinking)	分) Core Course
### MATERIAL PRINT OF ALTO 10													1	1					1	1	2	1	ing)	74 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2 Credits)
Martine   Mart																								(アactical Training Curriculum (2))  (アactical Training Curriculum (2))	20學分)
## ## ## ## ## ## ## ## ## ## ## ## ##																								Course 工讀實務實習(三)(Practical Training Curriculum (3))	School Course
## Methodological Control (1997)   Provided						)	0	0	0	0	0	17	1	1	0	0	0	0						合 計 Total	
### PRINCIPACIONE A PLANES   1																					3	3		普通物理(General Physics)	
March   Marc																								計算機程式設計(Computer Programming )	
Fig.																	3		3	3					
## CASE ALTERING AND																									
### PRINCESSORY AND PROMOTE COLUMN STATES AN	ture series	演講式課程L													2	1							olication)	化工產業與人工智慧應用 (Chemical Engineering Industry and Artificial Intelligence Application)	必 修
*** *** *** *** *** *** *** *** *** **																								有機化學實驗(Organic Chemistry Experiment)	程
Section						+							-	-	3	3		1						(Unit Operation and Transport Phenomena I)	學分
Company   Comp						+																		(Unit Operation and Transport Phenomena II)	Professional
Company   Comp						$\mp$							3	3										化工熱力學(Chemical Engineering Thermodynamics)	
語言語の対象に対象に対象に対象に対象に対象に対象に対象に対象に対象に対象に対象に対象に対	cture series	海護学==-1-				#							3	3									Soute - N	程序設計(Process Design)	
Bit	ture series	與縟式課程L				_			2	1														實務專題(I)(II)(Special Topics in Practice, (I~II))	
변화에는 (Chapter) (Market Newson (S)							4	2																	
변경에	Applied Chemistry module	應用什學描卷					6	3			0	0	12	11			9	9	12	10	15	13		合 計Total	gan.
1世紀代   1 日本の日本   1 日本の	Applied Chemistry module																							物理化學(二) (Physical Chemistry II)	組選
Part	nemical Engineering Processes modu	化工製程模組(													3	3								工程數學(二) (Engineering Mathematics II)	修課
변경하는 전 2 Tabal	nemical Engineering Processes modu	化工製程模組(							3	3														(Unit Operation and Transport Phenomena III)	6
## 1						,	0	0	3	3	0	0	0	0	9	9	0	0	0	0	0	0		ive 🚖 🚉 Total	分 Elective
변변·변환·변환·변환·변환·변환·변환·변환·변환·변환·변환·변환·변환·변									3	3	0	0			9	3		· ·	0	O		O		les	
展示于心寒の中ではいません。	選修Honors credit program elect																							材料科學粵鑰(Introduction to Material Science)	
전한 마이스 House Principles   1	選修Honors credit program elect					-											3	3	4	3					
변경함 플라이스에 Channel Engineering I	選修Honors credit program elect																							. , , , ,	
변경 변																	3	3						分子生物學(Molecular Biology)	
Special Trays is Process of Chemical Engineering 1						_																			
Mandactors Design Engineering   1																								(Special Topics in Practice of Chemical Engineering I)	
Demokative to Engry Materials and Processors																								(Introduction to Energy Engineering)	
변경 등						_									_	_	3	3						(Introduction to Energy Materials and Processes)	
변변 등 전한 등 March Commission (	選修Honors credit program elect	榮譽學分學和				+																			
Special Topics in Practice of Chemical Engineering 1)	選修Honors credit program elect																								
															2	1									
電子機能を (Requires and August Experiment)															3	3								電池製程技術(Battery Process Technology)	
合成の学業能Synthetic Chemistry Experiment)	選修Honors credit program elect												_											· · · · · · · · · · · · · · · · · · ·	
### (上質料理性 できない Practice of Chemical Engineering III)	assimonors credit program elect	来書学の学り											_	_										合成化學實驗(Synthetic Chemistry Experiment)	
#他規模與分析實作(Battery Assembly and Analysis Practice)    20													2	1										化工實務專題三	業
整地材料向分析實所(Battery Materials and Analysis Practice)  超色化學技術業倫子院育的(Protein) (Fundamental Conception Analysis of Chemical Engineering)  中70 (Requires at Conception Analysis of Chemical Engineering)  中70 (Requires at Conception Analysis of Chemical Engineering)  中70 (Requires at Conception Analysis Experiment)  中70 (Requires at Conception Analysis)  中70 (Requires at Conception Analysis Experiment)  中70 (Requires at Conception Analysis Experimen													3	3									ce)	電池組裝與分析實作(Battery Assembly and Analysis Practice)	修
1 日本											_		3	3										電池材料與分析實作(Battery Materials and Analysis Practice)	程
### Chronical Christophory Arabysis Of Chemical Engineering																								綠色化學技術叢論(Green Chemistry Technology Forum)  化工基礎概念解析	至 少
Glabutal Biotechnology and Bionergy)						+							-										neering)	(Fundamental Conception Analysis of Chemical Engineering) 生物科技與生質能源產業	學分
Rectures a least 34   Credits   C	ve remning.	AMPEÇEÇE LIST				+			3	2	3	3	-	1										(Industrial Biotechnology and Bioenergy)	Professional
Credits	學程選修Lecture series,Honors credit program elect	演講式課程,榮譽學分																					Engineering	es at 化工產業之機電實務講座(Lectures on Electro-Mechanical Engineering	(Requires at least 34
整備分析(Numerical Analysis)	選修Honors credit program elect	榮譽學分學和							3	3														its)	Credits)
生化工程(Biochemical Engineering)						$\perp$																	ation)		
化工程序與安全(Chemical Processing and Safety)	選修Honors credit program elect	榮譽學分學和				+																		· ·	
電池檢測與分析技術(Battery Testing and Analysis Technology)  生物技術醫實驗(Biotechnology and Practice)  系米材料與技術(Nanomaterial and Technology)  新寶機化工應用(Computer Application in Chemical Engeering)  第2						$\dashv$																			
生物技術暨實驗(Biotechnology and Practice)  第	選修 Honors credit program electi	榮譽學分學程							3															程序控制與實驗(Process Control and Experiment)	
奈米材料與技術(Nanomaterial and Technology)     3     3          至學學分學程選修 Honor 計算機仁工應用(Computer Application in Chemical Engeering)     3     3          至學學分學程選修 Honor						+	2	2	3	3													ogy)		
計算機化工應用(Computer Application in Chemical Engeering)  3 3	選修 Honors credit program electi	榮譽學分學有				_																			
	選修 Honors credit program electi							3															ng)		
	選修 Honors credit program electi					_																			
総色化學技術暨實驗	學程選修Lecture series,Honors credit program elect	減調式課程,榮譽學分																					aphy)	綠色化學技術暨實驗	
(Green Chemistry Technology and Experiment)  産業技術及問題解析						_							+				-							(Green Chemistry Technology and Experiment)  產業技術及問題解析	
(Problem Solving and Technical Communication)													-											(Problem Solving and Technical Communication)	
計算化學(Computational Chemistry)  3 3 3  asset						_																	ton Posses		
超電池産業實務專題講座(Lecture on Lithium Battery Industry Practice) 3 3 3 3 合計 Total 0 0 6 7 18 21 12 15 15 17 9 9 26 27 27 27									27	26	9	9	17	15	15	12	21	18	7	6	0	0	try Practice)		
基石專題 (Cornerston project) 1 3 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII																								基石專題 (Cornerston project)	Flats who see
際專業 選修															3	3							tocatalysis)	奈米光觸媒的綠色環境應用(Green application of nano-photocatalysis)	選修
頂石専題 (Capstone Project)							0	0	0	0	0	0			3	3	0	0	3	1	0	0		ive 頂石專題 (Capstone Project)	Elective
日 811048 日																							化丁配色炉炉	±	備註

1.本系學生於學療前因少類取得周代學製組之園修問程化學製組之園修問程化學分。 2.修專集工學是學分學程書:最低與學分檢檢調整為共同心緣化學分。撥戲團舊至少得分代面型,任園四類名2學分)。專與必修公學分。模組園修《學分。專業證修30學分。合計14學分;已修學之類可能與學分學程外系學分,接計為系享業證修學分。 3.修學房類似學分學程書:素低學學學分學的表現於一個學分;已修學之類可能與不是分別。 4.日中前開始實施實施與所度的學文學。 5.學與期間數上限為 27 學分,一至二年級不得少分學分。三面如果和不得少分學分。 6.「工資質的實質(一)。(20)」及「工資信學文文、為三下必修,另外可關修施拒稅學解程。 7.三上鄉屬帝國以(分給等數上課。以前足國數 7.三上鄉屬帝國以(分給等數上課。以前足國數 8.日後學之來學學分學程則必因數學分(內技文文教外),採計為系導業數修學分。 9.8份體育(三)、董育(四),於大二至大四,採其始重項教學。

: Catalog Remarks

Is Sudents of this department must take at least 6 credits of elective courses in either the Applied Chemistry module or the Chemical Engineering Processes module before graduation.

2. 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 Ceneral Education courses (choose four categories from the given five categories; 2 credits for each category), and 62 credits from major required, 6 credits from major required courses, totaling 148 credits in all. Completed second-specialization credit program: The minimum graduation credit structure is adjusted as follows: 42 credits from other departments are calculated as the Department's major elective credits.

3. Students who have completed an interdisciplinary credit program: The minimum graduation credit structure is adjusted as follows: 42 credits from elective courses, totaling 148 credits in all. The completed interdisciplinary credit program credit search of experiments must be calculated as the Department's major elective courses, totaling 148 credits in all. The completed interdisciplinary credit program credit search category), and 62 credits from major required, 6 credits from medial electives. 30 credits from elective courses, totaling 148 credits in all. The completed interdisciplinary credit program: The minimum graduation credit structure is adjusted as follows: 42 credits from elective courses, totaling 148 credits from elective courses; totaling 148 credits from elective courses, totaling 148 credits from elective courses in the part of the courses of the part o