## 明志科技大學114入學年化學工程系生化工程碩士班 課程表

## Ming Chi University of Technology <sup>7</sup>2025 SchoolYear J MS Program in Biochemical Engineering Curriculum

114/06/17校課程委員會議通過 114/06/03院課程委員會議通過 114/05/29系課程委員會議通過

Examination at School Curriculum Committee Meeting on June 17,2025 Examination at College Curriculum Committee Meeting on June 3,2025

Examination at Department Curriculum Committee Meeting on May 29,2025

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類別 category		課程名稱 Course name	上學期		下点	學期	
			Semester I		Semester II		備註
			學分	時數	學分	時數	175 HZ
					Credits		
		產業實務與書報討論(I)	Cicuits		Cicaits	Tiours	演講式課程
必修課程 Required Courses		Industrial and Practical Discussion(1)	1	2			Lecture series
		產業實務與書報討論(II)				_	演講式課程
		Industrial and Practical Discussion(2)			1	2	Lecture series
		科技論文寫作	†	_			全英語授課
		Technical English Writing	1	2			English-medium instruction
		專題研究(I)		_			全英語授課
		Special Topics(1)	1	2			English-medium instruction
		專題研究(Ⅱ)					全英語授課
		Special Topics(2)			1	2	English-medium instruction
		小計	3	6	2	4	•
		高等生物化學					全英語授課
		Advanced Biochemistry	3	3			English-medium instruction
核心選修課程 Core Elective Courses		生化工程特論	+				English-mediam instruction
			3	3			
		Special Topics on Biochemical Engineering 生醫工程	+				
					3	3	
		Biomedical Engineering 高等分子生物學	+	1	1		全英語授課
		同号カナ王初学 Advanced Molecular Biology			3	3	主失記文献  English-medium instruction
		Advanced Molecular biology					•
Core Liecti	ive Courses						1.上下學期各至少選1門核心選修課程
							2.超過兩門可抵專業選修課程
							1.The credits of core elective courses should
		小計	6	6	6	6	exceed 6 and should be earned from semester I and II respectively.
							Credits obtained from core elective courses
							exceeding the minimum requirement can be
							transferred to professional elective course credits.
	T	<b>9½=½</b> 〒 10					transferred to professional elective course credits.
專業選修課程 (至少選6門) Professional Elective Courses	生化工程領域 Biochemical Engineering	發酵工程			3	3	
		Fermentation Engineering  本美工程					
		酵素工程 Factorial Control	3	3			
		Enzyme Engineering 超臨界流體應用	+				
					3	3	
		Application of Supercritical Fluid 生醫複合材料					
		上國後日初刊 Biomedical composites	3	3			
		微生物技術	+				
		Microbial Technology	3	3			
		高等細胞生物學	+				
		Advanced Cell Biology	3	3			
	生物技術領域 Biotechnology	生物技術特論	+ -				
		Special Topics on Biotechnology	3	3			
		個的和做拉盖	1	<u> </u>			全英語授課/偶數學年開課
		細胞組織培養			3	3	English-Medium Instruction/Offered in even-
		Cell Tissue Culture					numbered academic years
		基因工程技術暨實務			3	3	全英語授課
		Gentic Engineering Technology and Practice			3	5	English-medium instruction
	Generality	生化儀器分析暨實作	3	3			全英語授課
		Biochemical Analysis Technology and Practice		,			English-medium instruction
		能源與環境生物技術暨實務	3	3			
		Energy and Environmental Biotechnology and					
		實驗設計與方法	3	3			全英語授課
		Experimental Design and Method	<u> </u>		ļ		English-medium instruction
		生物感測器技術			3	3	奇數學年開課
		Biosensing Technology			<u> </u>		Offered in odd-numbered academic years
		生技法律			3	3	
		Biotechnology legislation		ļ	<u> </u>		
		生物製劑專論			3	3	
	Biopharmaceuticals						市光》(6) 用印不小10 <sup>63</sup> 八
		小計	2.4	24	21	21	專業選修課程至少18學分
		小町	24	24	21	21	Professional elective courses must be a minimum of 18 credits (6 courses)
							of 18 credits(6 courses)

<sup>1.</sup> 畢業學分下限為29學分(不含論文6學分)·每學期修課上限為17學分·開課人數最低為5人。

The course curriculum does not include the required remedial classes for non-departmental graduates.

The minimum graduation credits for degree are 29 (excluding 6 credits for the thesis). The maximum credits earned are 17 per semester. The minimum enrollment for a course is 5 students.

<sup>2.</sup> 本課程表未包含非本系科畢業同學之規定補修課程。

<sup>3.</sup> 必修科目5學分;核心課程6學分;選修科目18學分(經指導教授簽名同意·可跨所選課·最多3門);合計29學分。

There are a total of 29 credits for graduation, including 5 credits of required courses, 6 credits of core elective courses, and 18 credits of professional elective courses. The transferable credits of 3 courses only from other institutes are earned with the agreement of the advisor.