

中山醫學大學

Chung Shan Medical University

115 學年度入學新生應修科目及學分表

Courses and Credits for Freshmen Admitted in the 115th Academic Year

健康管理學院醫學應用化學系碩士班

Master Program, Department of Medical Applied Chemistry

第一學年 1 st Academic Year						
科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
應用化學特論(一)	Special Topics in Applied Chemistry(I)	必修 Required	2	2	0	
書報討論(一)	Discussion in Literature (I)	必修 Required	1	1	0	
科技論文寫作	Technology Research Paper Writing	必修 Required	2	0	2	
應用化學特論(二)	Special Topics in Applied Chemistry(II)	必修 Required	2	0	2	
書報討論(二)	Discussion in Literature (II)	必修 Required	1	0	1	
高等有機化學	Advanced Organic Chemistry	選修 Elective	3	3	0	
金屬蛋白質化學	Chemistry of Metalloproteins	選修 Elective	3	3	0	
有機金屬特論	Special Topics in Organometallic Chemistry	選修 Elective	3	3	0	
永續合成化學	Sustainable Organic Chemistry	選修 Elective	3	3	0	
層析理論與模擬	Theory and Simulation of Chromatography	選修 Elective	3	3	0	
奈米生醫材料	Nanobiotechnology	選修 Elective	3	3	0	
高等高分子化學	Advanced Polymer Chemistry	選修 Elective	2	2	0	
智慧財產保護及科技發展	Protection of Intellectual Property Rights & Technical Development	選修 Elective	2	2	0	
機械學習在藥物設計上的應用	Machine Learning in Computer-aided Drug Design	選修 Elective	2	2	0	
高等無機化學	Advanced Inorganic Chemistry	選修 Elective	3	0	3	
有機反應機構	Organic Reaction Mechanisms	選修 Elective	3	0	3	
醫藥無機化學	Medicinal Inorganic Chemistry	選修 Elective	3	0	3	
奈米生醫技術特論	Special Topics in Nanobiotechnology	選修 Elective	3	0	3	
生物無機化學	Bioinorganic chemistry	選修 Elective	3	0	3	
化學信息學	Cheminformatics	選修	3	0	3	

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Master Program, Department of Medical Applied Chemistry

第一學年

1st Academic Year

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
		Elective				
物理有機化學	Physical Organic Chemistry	選修 Elective	3	0	3	
天然藥物合成解析	Strategies for Natural Products and Pharmaceutics Synthesis	選修 Elective	3	0	3	
生物觸媒化學特論	Special Topics in Biocatalytical Chemistry	選修 Elective	3	0	3	
藥物動力學及其應用	Pharmakinetik and its application	選修 Elective	2	0	2	
生化分析化學	Bioanalytical Chemistry	選修 Elective	2	0	2	
必修學分合計 Required Credits Subtotal			8	3	5	

第二學年

2th Academic Year

科目名稱 Course Name in Chinese	英文科目名稱 Course Name in English	必修/選修 Required Elective	合計 學分 Credits Subtotal	第一 學期 1 st Semester Credits	第二 學期 2 nd Semester Credits	備註 Remarks
實驗教學實習	Practicum in Teaching of Experiment	必修 Required	1	1	0	
書報討論(三)	Discussion in Literature(III)	必修 Required	1	1	0	
書報討論(四)	Discussion in Literature(IV)	必修 Required	1	0	1	
必修學分合計 Required Credits Subtotal			3	2	1	

最低畢業學分數 30 學分，必修 11 學分，選修 13 學分，論文 6 學分

Minimum graduation credits: 30 credits; compulsory: 11 credits; elective: 13 credits; thesis: 6 credits

說明：

一、畢業所需課程學分至少為 24 學分，不包含碩士論文學分，其中本系碩士班必修 11 學分、選修至少 13 學分，且選修學分中至少 6 學分須為本碩士班所開設之課程。

二、選課上限：每學期選課上限為 15 學分。

Instructions：

1. Students must complete at least 24 credits of coursework for graduation, excluding the master's thesis credits, including 11 credits of required courses and at least 13 credits of elective courses, of which at least 6 credits must be taken from courses offered by the department.

2. Course Selection Limit: The maximum course load per semester is 15 credits.