

國立暨南國際大學應用化學系碩士班必選修科目一覽表
National Chi Nan University
Department of Applied Chemistry Master Program Curriculum

本表(113)學年度入學新生適用 Effective for students admitted in Fall, 2024, and in spring 2025

最低畢業學分：24學分；必修10學分，選修14學分。

Master program requirements: a minimum of 24 required credits, including 10 credits in Department required courses and 14 credits in Department elective courses.

課程代號 Course Code	課程名稱(中文及英文) Course Name (Chinese and English)	學分數 Credits	修別 Course type (required/elective)	開課年級 Course availability	備註 Notes
245011	化學技術(上) Chemistry Skill (I)	1	必 required	一上 Master 1st Semester	必修課程required
245020	化學技術(下) Chemistry Skill (II)	1	必 required	一下 Master 2nd Semester	
245050	研究方法一(上) Graduate Research I (I)	1	必 required	一上 Master 1st Semester	
245022	研究方法一(下) Graduate Research II (II)	1	必 required	一下 Master 2nd Semester	
245051	研究方法二(上) Graduate Research II (I)	1	必 required	二上 Master 3rd Semester	
245052	研究方法二(下) Graduate Research II (II)	1	必 required	二下 Master 4th Semester	
245016	專題報告一(上) Seminar I (I)	1	必 required	一上 Master 1st Semester	
245019	專題報告一(下) Seminar I (II)	1	必 required	一下 Master 2nd Semester	

245025	專題報告二(上) Seminar II (I)	1	必 required	二上 Master 3rd Semester	
245030	專題報告二(下) Seminar II (II)	1	必 required	二下 Master 4th Semester	
應用化學組選修課程					
245077	高等分析化學(上) Advances in Analytical Chemistry (I)	3	選 elective	一 Master 1st/2nd Semester	核心選修課程： 至少修習6學分 (take at least 6 credits)
245078	高等分析化學(下) Advances in Analytical Chemistry (II)	3	選 elective	一 Master 1st/2nd Semester	
245061	高等生物化學(上) Advances in Biochemistry (I)	3	選 elective	一 Master 1st/2nd Semester	
245062	高等生物化學(下) Advances in Biochemistry (II)	3	選 elective	一 Master 1st/2nd Semester	
245079	材料化學(上) Material Science (1)	3	選 elective	一 Master 1st/2nd Semester	
245080	材料化學(下) Material Science (2)	3	選 elective	一 Master 1st/2nd Semester	
245068	高等有機化學(I) Advances in organic Chemistry(I)	3	選 elective	一 Master 1st/2nd Semester	
245069	高等有機化學(II) Advances in organic Chemistry(II)	3	選 elective	一 Master 1st/2nd Semester	
245070	高等無機化學(I) Advances in Inorganic Chemistry(I)	3	選 elective	一 Master 1st/2nd Semester	
245067	應用化學特論(I) Special topics on applied Chemistry(I)	3	選 elective	一 Master 1st/2nd Semester	
245065	無機化學特論 Special Topics in Inorganic Chemistry	3	選 elective	一 Master 1st/2nd Semester	
245040	材料化學特論 Special Topics in Material Science	3	選 elective	一 Master 1st/2nd Semester	
245038	物理化學特論 Special Topics in Physical Chemistry	3	選 elective	一 Master 1st/2nd Semester	

245054	材料分析 Materials Characterization	3	選 elective	— Master 1st/2nd Semester	
245075	現代醫學概論 Introduction to Modern Medicine Science	3	選 elective	— Master 1st/2nd Semester	
245035	固態化學 Solid State Chemistry	3	選 elective	— Master 1st/2nd Semester	
245028	腫瘤生物學 Oncology	3	選 elective	— Master 1st/2nd Semester	
245071	生醫技術 Biomedical Skill	3	選 elective	— Master 1st/2nd Semester	
245076	生理學 Physiology	3	選 elective	— Master 1st/2nd Semester	
245072	生物科技與生物藥學 Biotechnology and Biomedicine	3	選 elective	— Master 1st/2nd Semester	
245073	細胞生物學 Cellular Biology	3	選 elective	— Master 1st/2nd Semester	
245045	醫學工程與生物科技導論 Introduction of Biomedical Engineering and Biomedical Technology Engineering	3	選 elective	— Master 1st/2nd Semester	
245074	分子生物學 Molecular Biology	3	選 elective	— Master 1st/2nd Semester	
245033	微生物與免疫學 Microbiology & Immunology	3	選 elective	— Master 1st/2nd Semester	
245053	物理化學(三) Physical Chemistry (3)	3	選 elective	— Master 1st/2nd Semester	
245055	雜環化學 Heterocyclic Chemistry	3	選 elective	— Master 1st/2nd Semester	
245029	生醫特論 Special Topics in Biomedicine	3	選 elective	— Master 1st/2nd Semester	
245056	果蠅模式動物 Drosophila animal model system	2	選 elective	— Master 1st/2nd Semester	
245057	計算化學 Computational chemistry	3	選 elective	— Master 1st/2nd Semester	需同時修習計算化學實驗 requisite courses Computational Chemistry Lab at same time

245058	計算化學實驗 Computational Chemistry Lab	1	選 elective	— Master 1st/2nd Semester	需同時修習計算化學 requisite courses Computational Chemistry
245059	電化學特論 Special topics in Electrochemistry	3	選 elective	— Master 1st/2nd Semester	
245060	電化學 Electroanalytical Chemistry	3	選 elective	— Master 1st/2nd Semester	
245066	分析化學特論 Special Topics in Analytical Chemistry	3	選 elective	— Master 1st/2nd Semester	
245064	X光繞射原理 The Basic of Crystallography and Diffraction	3	選 elective	— Master 1st/2nd Semester	
245082	超分子化學導論 Introduction to Supramolecular Chemistry	3	選 elective	— Master 1st/2nd Semester	
245081	藥物化學導論 Introduction to Medicinal Chemistry	3	選 elective	— Master 1st/2nd Semester	
生物醫學組選修課程					
245073	細胞生物學 Cellular Biology	3	選 elective	— Master 1st/2nd Semester	核心選修課程: 至少修習9學 分。 (take at least 9 credits)
245074	分子生物學 Molecular Biology	3	選 elective	— Master 1st/2nd Semester	
245071	生醫技術 Biomedical Skill	3	選 elective	— Master 1st/2nd Semester	
245061	高等生物化學(上) Advanced Biochemistry(I)	3	選 elective	— Master 1st/2nd Semester	
245062	高等生物化學(下) Advanced Biochemistry(I)	3	選 elective	— Master 1st/2nd Semester	
245076	生理學 Physiology	3	選 elective	— Master 1st/2nd Semester	一般選修elective
245075	現代醫學概論 Introduction to Modern Medicine Science	3	選 elective	— Master 1st/2nd Semester	
245028	腫瘤生物學 Oncology	3	選 elective	— Master 1st/2nd Semester	

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245033	微生物與免疫學 Microbiology & Immunology	3	選 elective	— Master 1st/2nd Semester
245072	生物科技與生物藥學 Biotechnology and Biomedicine	3	選 elective	— Master 1st/2nd Semester
245029	生醫特論 Special Topics in Biomedicine	3	選 elective	— Master 1st/2nd Semester
245056	果蠅模式動物 Drosophila animal model system	2	選 elective	— Master 1st/2nd Semester

備註：1. 碩一學生聽演講的次數，由化學技術(上)(下)之任課老師規定之。
2. 碩二學生聽演講的次數，由專題報告二(上)(下)之任課老師規定之。

填表人： 系(所)主管： 院長： 填表日期：