

國立彰化師範大學
 化學系碩士班畢業條件表暨課程架構表
 (115學年度入學學生適用)
 National Changhua University of Education
 Graduation Requirements and Course Structure for Master's Program of Chemistry
 (Applicable for students in 115 academic year)

列印日期(Print Date:2025/10/27)

一.系必修課程

I.Department Required Courses

課程名稱 Course Name	學分/學時 Credit(s)/ Hour(s)	年級 Grade	學期 Semester
化學書報討論(一) Seminar I	2/2	1	1
專題研究(一) Research I	3/3	1	1
化學書報討論(二) Seminar II	2/2	1	2
專題研究(二) Research II	3/3	1	2
化學書報討論(三) Seminar III	2/2	2	1
論文指導(一) Thesis Supervision I	3/0	2	1
論文 Thesis	0/0	2	2
論文指導(二) Thesis Supervision II	3/0	2	2

二.系選修課程

II.Department Elective Courses

課程名稱 Course Name	學分/學時 Credit(s)/ Hour(s)
X射線結晶結構學(一) X-ray Crystallography I	3/3
化學研究技術 Chemical Research Techniques	3/3
生物分析化學 Bioanalysis Chemistry	3/3
生物化學特論 Special Topics in Biochemistry	3/3
生物有機化學 Bioorganic Chemistry	3/3
光電高分子 Optoelectronic polymer	3/3
有機金屬化學 Organometallic Chemistry	3/3

有機結構論 Organic Structures	3/3
計算化學 Computational Chemistry	3/3
高分子科學 Polymer Science	3/3
高等分析化學 Advanced Analytic Chemistry	3/3
高等生物化學 Advanced Biological Chemistry	3/3
高等有機化學 Advanced Organic Chemistry	3/3
無機光譜化學 Inorganic Spectroscopic Chemistry	3/3
觸媒化學 Catalytic Chemistry	3/3
X射線結晶結構學(二) X-ray Crystallography II	3/3
分子光譜學 Molecular Spectroscopic Chemistry	3/3
化學動力學 Chemical Kinetics	3/3
生化無機 Bioinorganic Chemistry	3/3
有機反應機構 Organic Reaction Mechanisms	3/3
高分子定性與分析 Characterization and Analysis of Polymer	3/3
高等物理化學 Advanced Physical Chemistry	3/3
高等無機化學 Advanced Inorganic Chemistry	3/3
高等儀器分析 Advanced Instrumental Analysis	3/3
量子化學 Quantum Chemistry	3/3
螢光光譜學 Principle of Fluorescence Spectroscopy	3/3
分析化學特論 Special Topics in Analytical Chemistry	3/3
化學熱力學 Chemical Thermodynamics	3/3
有機合成 Organic Synthesis	3/3
材料化學 Material Chemistry	3/3
物理生物化學 Physical Biological Chemistry	3/3
理論化學 Theoretical Chemistry	3/3

電化學 Electrochemistry	3/3
分離化學 Separation Chemistry	3/3
天然物化學 Natural Product Chemistry	3/3
物理化學特論 Special Topics in Physical Chemistry	3/3
表面科學 Surface Science	3/3
配位化學 Coordination Chemistry	3/3
統計熱力學 Statistical Thermodynamics	3/3
蛋白質化學 Proteomics Chemistry	3/3
藥物化學 Medicinal Chemistry	3/3

三.先修科目

III.Prequisite Courses

先修課程 Prerequisite Course	後修課程 Subsequent Course
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四.畢業條件

IV.Graduation Requirements

<p>一、本所最低畢業學分為24學分，包含必修12學分、選修12學分，不含「論文指導（一）（二）」6學分及教育學分；凡註冊後應至少修習一門科目（含論文），否則應辦理休學。已修畢最低畢業學分而論文尚在撰寫中者，次學年起每學期必須選修「論文」。</p> <p>二、凡選修本系碩士班開設科目，一律採認為畢業學分。</p> <p>三、畢業總學分數之遠距教學課程學分數，不得超過畢業總學分數之二分之一。</p> <p>四、非本系碩士班課程（含：教育學分、大學部課程）須於一年級暑假起，經指導教授同意後修習。</p> <p>五、研究生應於申請學位考試前修習通過於「臺灣學術倫理教育資源中心」(https://ethics.nctu.edu.tw/)網路教學平台之「學術研究倫理教育」課程等相關規定。</p>
<p>1. The minimum graduation requirement for this institute is 24 credits, including 12 required credits and 12 elective credits. This does not include the 6 credits for "Thesis Guidance (I) (II)" and education credits. After registration, at least one course (including thesis) must be taken each semester, otherwise a leave of absence must be applied for. Students who have completed the minimum graduation credits but are still writing their thesis must enroll in the "Thesis" course each semester starting from the next academic year.</p> <p>2. All courses offered by the master's program of this department can be counted towards graduation credits.</p> <p>3. The number of credits earned through distance learning courses cannot exceed half of the total credits required for graduation.</p> <p>4. Non-departmental master's courses (including education credits and undergraduate courses) must be taken with the consent of the advisor starting from the summer after the first year.</p> <p>5. Before applying for the degree examination, graduate students must complete and pass the "Academic Research Ethics Education" course on the online teaching platform of the "Taiwan Academic Ethics Education Resource Center" (https://ethics.nctu.edu.tw/) and comply with related regulations.</p>