應用化學系分子科學碩士班

107 學年度

最低修業年限	一年
應修學分數	24 學分
應修(應選)課程及符 合畢業資格之修課相 關規定	 1.必修書報討論2學分、專題演講2學分、論文研究2學分;超修上列課程不列入畢業學分。 2.另須選修應用化學系碩士或博士班四門課,其中包含核心課程中至少兩種類型科目各一門。(不包含「教學實務」課程)。核心課程分五種類型: (1)量子化學/量子力學/計算化學 (2)熱力學/統計熱力學 (3)化學動力學/高等化學動力學/分子模擬動態學/物化特論一反應動態學。 (4)物理化學研究技術/雷射化學/超快化學/分子光譜/光化學原理。 (5)生物分析/生物物理/生物分子 註:「量子力學」課程可至本校電子物理系或物理研究所碩士班選修,經修畢及格後,同意抵免本班核心課程。
備註	 本所碩士班研究生入學後,申請獲准修教育學程者,修業期限最少為三年,如有特殊情況,由指導教授提課程委員會討論決定之。 擔任教學獎助生應修習「教學實務」課程,修習「教學實務」課程至多採計畢業學分1學分。 碩士生須於申請學位考試前完成線上「學術研究倫理教育」課程,課程總測驗成績達及格標準並提供證明文件,始得申請學位考試。

M. S. Program in Molecular Science, Department of Applied Chemistry Academic Year 107

Academic Teal 107			
Minimum Term of Study	One Year		
Minimum Credits	24 Credits		
	 I. Mandatory: Seminar (2 credits), Colloquium (2 credits), Thesis Research (2 credits); if select those courses exceed the mandatory credits, will not include in the minimum credits. II. At least two courses from two of the five Core Fundamentals A. At least one course each from two of the five Core Fundamentals (1) Quantum Chemistry, Quantum Mechanics, Computational Quantum Chemistry (2) Chemical Thermodynamics, Statistical Thermodynamics (3) Chemical Kinetics and Dynamics, Advance Chemical Kinetics, Molecular Modeling Dynamics, Special Topics in Physical Chemistry-Reaction Dynamics (4) Research Techniques in Physical Chemistry, Laser Chemistry, Ultrafast Chemistry, Molecular Spectroscopy, Principle of Photochemistry (5) Bioanalytical, Biophysical, Biomolecules series B. Two additional graduate level courses from our Master program. (Excluding Teaching Technique Practice) Note: Credits of the graduate course "quantum mechanics" earned from the Department of Electrophysics or Institute of Physics can be counted as core courses of DAC. 		
Notes	 I. Minimum term of study required is three years for master program students who join the teacher education program. Any special problems aroused should be submitted to the curriculum committee for discussion by the advisor. II. Graduate teaching assistants should enrolled in "Teaching Technique Practice" 		

and can claim at most 1 credit for the graduation credits.
III. Students should pass the on-line course "Academic Research Ethics
Education". The passing certificate for this course should be submitted to the
Department office before applying for the degree exam.

應用化學系分子科學博士班

107 學年度

最低修業年限	三年
具碩士學位博士生	20 學分
應修學分數	20 字分
直升博士生應修學分數	32 學分
	1.必修書報討論2學分、專題演講2學分、論文研究2學分;超修上列課程不
	列入畢業學分。
	2.具碩士學位博士生另須選修本系碩士班或博士班課程至少 3 門(不包含「教
應修(應選)課程及符合畢	學實務」課程)共計9學分。
業資格之修課相關規定	3.直升博士生另須選修本系碩士班或博士班課程至少6門(不包含「教學實務」
	課程)共計 18 學分。
	4.分析組:書報討論最多修 4 次;專題演講最多修 2 次,但上述課程均不列入
	必選修學分規定中的 3 門課程。
備註	(1) 擔任教學獎助生應修習「教學實務」課程,修習「教學實務」課程至多採
	計畢業學分1學分。
	(2) 博士生須於申請學位考試前完成線上「學術研究倫理教育」課程,課程總
	測驗成績達及格標準並提供證明文件,始得申請學位考試。

Ph. D. Program in Molecular Science, Department of Applied Chemistry Academic Year 107

Minimum Term of Study Three Year Minimum Credits for Ph.D. 20 Credits Students Who Have Master's Degrees. Minimum Credits for Ph.D. 32 Credits Students Who Advanced from Master's or Bachelor's Programs I. Mandatory: Seminar (2 credits), Colloquium (2 credits), Thesis Research (2 credits); if select those courses exceed the mandatory credits, will not include in the minimum credits. II. Those with Master Degrees must take at least 3 additional graduate level classes from our program (9 credits). (Excluding Teaching Technique Curriculum and Regulations III. Those who switched over from our Master Program or Bachelor's must take at least 6 additional graduated level classes from our program (18 credits). (Excluding Teaching Technique Practice) IV. Analytic Chemistry Division: Seminar (up to 4 credits), Department Colloquium (up to 2 credits). These courses are not included in the required courses (the 3 or 6 courses) stated above. Graduate teaching assistants should enrolled in "Teaching Technique Practice" and can claim at most 1 credit for the graduation credits. II. Students should pass the on-line course "Academic Research Ethics Notes Education". The passing certificate for this course should be submitted to the Department office before applying for the degree exam.