111 Master program for the Faculty of Medicinal and Applied Chemistry

Type of Course	Code	Courses	Credits	1 st Year 1 st Semester	1 st Year 2 nd Semester	2 nd Year 1 st Semester	2 nd Year 2 nd Semester	Faculty	note
Require		Behavior							
		專題討論 (Division of Medicinal Chemistry) Seminar	4	1	1	1	1	Chai-Lin Kao	English
		專題討論 (Division of Medicinal Chemistry) Seminar	4	1	1	1	1	Po-Yu Chen	English
		專題討論(Division of Applied Chemistry) Seminar	4	1	1	1	1	Chih-Kuang Wang	English
		生命科學核心技術與學術倫理 The Principle of Core Techniques and Ethics in Life Sciences	2	2				Bao-Sen Shieh	
		特別演講 Special Lecture	0	0	0	0	0	Genin Gary Huang	
		教學實習 Professional Practice in Chemistry	0	0	0	0	0	1. Chien-Hung Li 2. Chia-Hsiang Chen	English
		碩士論文 Thesis	6						
Elective courses	*	有機化學特論(一) Special Topics in Organic Chemistry (I)	2	2				Jeh-Jeng Wang	English
	*	有機化學特論(二) Special Topics in Organic Chemistry (II)	2		2			Jeh-Jeng Wang	English
	*	無機化學特論(一) Special Topics in Inorganic Chemistry (I)	2	2				Sodio C.N. Hsu	English
	*	無機化學特論(二) Special Topics in Inorganic Chemistry (II)	2		2			Sodio C.N. Hsu	English
	*	物理化學特論(一) Special Topics in Physical Chemistry (I)	2	2				Li-Fang Wang	English
	*	物理化學特論(二) Special Topics in Physical Chemistry (II)	2		2			Li-Fang Wang	English
	*	儀器分析特論(一) Special Topics in Instrumental Analysis(I)	2	2				Tsai-Hui Duh	English
	*	儀器分析特論(二) Special Topics in Instrumental Analysis(II)	2		2			Po-Yu Chen	English
		材料化學特論(一) Special topics in materials in chemistry (I)	2	2				Chih-Kuang Wang	
		材料化學特論(二) Special topics in materials in chemistry (II)	2		2			Chih-Kuang Wang	
		藥物化學特論 Special Topics in Medicinal Chemistry	2	2				Chai-Lin Kao	English
		生物化學特論(一) Special Topics in Biochemisty(I)	2	2				Tzu-Pin Wang	
		生物化學特論(二) Special Topics in Biochemisty(II)	2		2			Tzu-Pin Wang	
		生醫材料特論 Special Topics in Biomaterials	2		2			Li-Fang Wang	
		有機光譜特論 Special Topics in Spectroscopy	2	2				Yeh-Long Chen	
		雜環化學特論 (一)	2	2				Chai-Lin Kao	English

	Special Topics in						
	Heterocyclochemistry (I)						
	雜環化學特論(二)						
	Special Topics in	2		2		Chai-Lin Kao	English
	Heterocyclochemistry (II)	_					-6-1011
	生物有機化學特論(一)						
	Special Topics in Bioorganic Chemistry	2	2			Jeh-Jeng Wang	
	(1)						
	生物有機化學特論(二)						
	Special Topics in Bioorganic Chemistry	2		2		Jeh-Jeng Wang	
	(II)						
	醫藥品合成化學特論	2		2		Vah Lang Chan	
	Special Topics in Drug Synthesis (I)	2		2		Yeh-Long Chen	
	有機金屬化學特論					Hsuan-Ying Chen	
	Special Topics in Organometallic	2	2			11suan-11ng Chen	
	Chemistry						
	超分子化學特論						
	Special Topic in Supramolecular	2		2		Sodio C.N. Hsu	
	Chemistry						
	生物無機化學特論	2				0 " 0 "	
	Special Topics in Bioinorganic	2	2			Sodio C.N. Hsu	English
_	Chemistry						
	電化學特論	2	2			Po-Yu Chen	
	Special Topics in Electrochemistry			1			
	質譜學特論	2		2		Po-Jui Huang	
	Special Topics in Mass Spectrometry						
	生物觸媒化學特論(一)	•				T DI W	
	Special Topics in Biocatalytical	2	2			Tzu-Pin Wang	
_	Chemistry(I)						
	生物觸媒化學特論(二)	2		2		Tau Din Wang	
	Special Topics in Biocatalytical	2		2		Tzu-Pin Wang	
	Chemistry(II)						
	藥物分析特論	2		2		Tsai-Hui Duh	
	Special Topics in Pharmaceutical Analysis	_				15al-11ul Dull	
	有機金屬催化劑特論						
	行成立)衝性11月1行冊 Special Topics in Organometallic Catalysts	2		2		Hsuan-Ying Chen	
	計算化學概論						
	ローテルコー Introduction to Computational	2	2			Hsing-Yin Chen	
	Chemistry	_	_			lising im chen	
	永續化學導論(上)					Sodio C.N. Hsu	
-	Introduction to SCST I	3	3			Ito Chao	
	永續化學導論(下)					Tzu-Pin Wang	
		3		3		Ito Chao	
	Introduction to SCST II						
	高等有機化學	2				Hui-Fen Chen	
	Advanced Organic Chemistry	3		3		Wen-Shan Li	
Elective						Sheng-Fa Yu	
courses	高等材料化學	3		3		Hui-Fen Chen	
offered –	Advanced Chemistry of Materials					Chin-Ti Chen	
by	現代實驗技術-化學	_				Genin Gary Huang	
Academ	Modern Experimental	2	2			Chen-Hsiung Hung	
ia Sinica	Techniques-Chemistry		-	1			
	冷凍電子顯微術:理論與實作					Conin Com H	
	()	2	2			Genin Gary Huang	
	Cryo-Electron Microscopy: theory and					Wei-Hau Chang	
	practice (I)						
	冷凍電子顯微術:理論與實作					Conin Comy Huena	
	(二)	2			2	Genin Gary Huang	
	Cryo-Electron Microscopy: theory and					Wei-Hau Chang	
	practice (II)		<u>I</u>	1			1

[Note]

1. A total of 30 credits is required for graduation, including 12 required credits (6 credits are for the Master's thesis) and 18 elective credits.

(Among the elective courses marked with " * "students must select and complete at least three out of eight.)

- (Applicable to students admitted from the 2019 academic year onward.)
- 2. Each elective course requires a minimum enrollment of 3 students to be offered.
- 3. Students admitted in the 2009 academic year and thereafter must pass an English proficiency test equivalent to the GEPT Intermediate Level (first stage) before graduation. Those who fail to meet this requirement must take additional English credit courses.
- 4. Credits from partner institutions may be accepted with advisor and department chair approval.
- 5. Students may take biostatistics-related courses from other departments with prior approval.
- 6. Graduate students may take up to 15 credits per semester.
- 7. Master's students may take Ph.D.-level courses in the department; credits count toward electives.
- 8. From 2017, students must complete the **Academic Ethics course** online in their first semester and pass the test before applying for degree defense.
- 9. Students in the Advanced Chemistry Division may take existing courses offered by Academia Sinica, and the credits may be included in the curriculum list (as newly added courses) without additional external review.
- 10. From the 2017 academic year onward, graduate students must complete self-study and pass the final test on the Taiwan Academic Ethics Education Resource Center website during their first semester in order to be eligible to apply for the degree examination
- 11. For graduate students taking undergraduate-level courses, a minimum score of 60 is required to pass. Failed courses cannot be retaken through make-up exam, failed courses cannot be retaken and are not counted toward GPA or credit totals.