

110 M.S. Program for the Faculty of Medicinal and Applied Chemistry

Type of Course	Courses	Credits	1 st Y 1 st S	1 st Y 2 nd S	2 nd Y 1 st S	2 nd Y 2 nd S	Faculty	note
	Behavior							
Required courses	Seminar (Medicinal)	4	1	1	1	1	Chai-Lin Kao	English
	Seminar (Medicinal)	4	1	1	1	1	Po-Yu Chen	English
	Seminar (Applied)	4	1	1	1	1	Chih-Kuang Wang	English
	The Principle Core Techniques and Ethics in Life Science	2	2				Bao-Sen Shieh	
	Special Lecture	0	0	0	0	0	Genin Gary Huang	
	Professional Practice in Chemistry	0	0	0	0	0	1st Chien-Hung Li 2nd Chia-Hsiang Chen	English
	Thesis	6						
Elective courses	* Special Topics in Organic Chemistry (I)	2	2				Wei-Peng Li	English
	* Special Topics in Organic Chemistry (II)	2		2			Chai-Lin Kao	English
	* Special Topics in Inorganic Chemistry (I)	2	2				Sodio C. N. Hsu	English
	* Special Topics in Inorganic Chemistry (II)	2		2			Sodio C. N. Hsu	English
	* Special Topics in Physical Chemistry (I)	2	2				Li-Fang Wang	English
	* Special Topics in Physical Chemistry (II)	2		2			Li-Fang Wang	English
	* Special Topics in Instrumental Analysis (I)	2	2				Tsai-Hui Duh	English
	* Special Topics in Instrumental Analysis (II)	2		2			Po-Yu Chen	English
	Special topics in Materials Chemistry (I)	2	2				Chih-Kuang Wang	
	Special topics in Materials Chemistry (II)	2		2			Chih-Kuang Wang	
	Special Topics in Medicinal Chemistry	2	2				Chai-Lin Kao	English
	Special Topics in Biochemistry (I)	2	2				Tzu-Pin Wang	
	Special Topics in Biochemistry (II)	2		2			Tzu-Pin Wang	
	Special Topics in Biomaterials	2		2			Li-Fang Wang	
	Special Topics in Spectroscopy	2	2				Yeh-Long Chen	
	Special Topics in Heterocyclochemistry (I)	2	2				Long-Chin Hwang	English
	Special Topics in Heterocyclochemistry (II)	2		2			Long-Chin Hwang	English
	Special Topics in Bioorganic Chemistry (I)	2	2				Jeh-Jeng Wang	
	Special Topics in Bioorganic Chemistry (II)	2		2			Jeh-Jeng Wang	
	Special Topics in Drug Synthesis (I)	2	2				Yeh-Long Chen	
	Special Topics in Organometallic Chemistry	2	2				Hsuan-Ying Chen	
	Special Topic in Supramolecular Chemistry	2		2			Sodio C. N. Hsu	
	Special Topics in Bioinorganic Chemistry	2	2				Sodio C. N. Hsu	English
	Special Topics in Electrochemistry	2	2				Po-Yu Chen	
	Special Topics in Mass Spectrometry	2		2			Po-Jui Huang	
	Special Topics in Biocatalytical Chemistry(I)	2	2				Tzu-Pin Wang	
	Special Topics in Biocatalytical Chemistry(II)	2		2			Tzu-Pin Wang	
	Special Topics in Pharmaceutical Analysis	2		2			Tsai-Hui Duh	
Special Topics in frontier areas of chemistry (I)	2	2				Wei-Yu Lin	English	
Special Topics in frontier areas of chemistry (II)	2		2			Wei-Yu Lin	English	

	Special Topics in Organometallic Catalysts	2		2			Hsuan-Ying Chen	
	Introduction to Computational Chemistry	2	2				Hsing-Yin Chen	
Academia Sinica Elective Course	Introduction to SCST (I)	3	3				Sodio C. N. Hsu Ito Chao	
	Introduction to SCST (II)	3		3			Tzu-Pin Wang Ito Chao	
	Advanced Organic Chemistry	3		3			Hui-Fen Chen Wen-Shan Li Steve Sheng-Fa Yu	
	Advanced Chemistry of Materials	3		3			Hui-Fen Chen Chin-Ti Chen	
	Modern Experimental Techniques-Chemistry	2	2				Genin Gary Huang Chen-Hsiung Hung	
	Cryo-Electron Microscopy: theory and practice (I)	2	2				Genin Gary Huang Wei-Hau Chang	
	Cryo-Electron Microscopy: theory and practice (II)	2			2		Genin Gary Huang Wei-Hau Chang	

【Note】

1. Master's students are required to take a minimum of 30 credits, including 12 credits from required courses and 18 credits from elective courses. The required courses should include 6 credits of "Dissertation of Master degree".
2. The 18 credits' worth of elective courses should include at least 3 courses marked with an *.
3. Master's students shall take no more than 15 credits hours of elective courses per semester.
4. Students can also take courses from other departments or PhD courses in our department according to our department's application process (Please refer to the download form section on our website).
5. Master's students need to submit at least one of the following English proficiency test results prior to their Master's dissertation exam:
 - i. Test of English as a Foreign Language (TOEFL): TOEFL Institutional Testing Program (ITP)- 500 points (or above) or TOEFL Computer-Based Test (CBT)- 193 points (or above) or TOEFL Internet-Based Test (iBT)- 68 points (or above) required.
 - ii. General English Proficiency Test (GEPT): High-Intermediate level (First Stage or above) required.
 - iii. Test of English for International Communication (TOEIC): 600 points (or above) required.
 - iv. International English Language Testing System (IELTS): 5.5 points (or above) required.

* If the students fail to pass any of the aforementioned English proficiency test, they are required to enroll in English courses and pass the exam in KMU's Center for Languages and Culture.
6. Every student should pass the exam held by the "Center for Taiwan Academic Research" prior to their Master's dissertation exam.

(Y→ Year, S→ Semester)