

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

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

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

**【Note】**

- 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".
- The 18 credits' worth of elective courses should include at least 3 courses marked with an \*.
- Master's students shall take no more than 15 credits hours of elective courses per semester.
- 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).
- Master's students need to submit at least one of the following English proficiency test results prior to their Master's dissertation exam:
  - 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.
  - General English Proficiency Test (GEPT): High-Intermediate level (First Stage or above) required.
  - Test of English for International Communication (TOEIC): 600 points (or above) required.
  - 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.
- 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)