

## 108 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> Y	2 <sup>nd</sup> Y	2 <sup>nd</sup> Y	Faculty	note
			1 <sup>st</sup> S	2 <sup>nd</sup> S	1 <sup>st</sup> S	2 <sup>nd</sup> S		
	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 in Life Science	2	2				<b>Ruei-Nian Li</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 2<sup>nd</sup> Chia-Hsiang Chen</b>	English
	Thesis	6						
Elective courses	* Special Topics in Organic Chemistry (I)	2	2				<b>Cherng-Chyi Tzeng</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 (I)	2	2				<b>Chai-Lin Kao</b>	English
	Special Topics in Medicinal Chemistry (II)	2		2			<b>Chai-Lin Kao</b>	English
	Special Topics in Biochemisty (I)	2	2				<b>Tzu-Pin Wang</b>	
	Special Topics in Biochemisty (II)	2		2			<b>Tzu-Pin Wang</b>	
	Special Topics in Biomaterials	2		2			<b>Li-Fang Wang</b>	
	Special Topics in Spectroscopy (I)	2	2				<b>Yeh-Long Chen</b>	
	Special Topics in Spectroscopy (II)	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	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
	Special Topics in Organometallic Catalysts	2		2			<b>Hsuan-Ying Chen</b>	
	Introduction to Computational Chemistry	2	2				<b>Hsing-Yin Chen</b>	
	Special Topics in Academic Writing in Chemistry	2				2	<b>James R. Carey</b>	English
	Learning from Examples	1	1					
Academia Sinica Elective Course	Introduction to SCST (I)	3	3				<b>Tzu-Pin Wang</b> <b>Ito Chao</b>	
	Introduction to SCST (II)	3		3			<b>Tzu-Pin Wang</b> <b>Ito Chao</b>	
	Advanced Organic Chemistry	3		3			<b>Hui-Fen Chen</b> <b>Wen-Shan Li</b> <b>Steve Sheng-Fa Yu</b>	
	Advanced Chemistry of Materials	3		3			<b>Hui-Fen Chen</b> <b>Chin-Ti Chen</b>	
	Modern Experimental Techniques-Chemistry	2	2				<b>Genin Gary Huang</b> <b>Chen-Hsiung Hung</b>	
	Cryo-Electron Microscopy: theory and practice (I)	2	2				<b>Genin Gary Huang</b> <b>Wei-Hau Chang</b>	
	Cryo-Electron Microscopy: theory and practice (II)	2			2		<b>Genin Gary Huang</b> <b>Wei-Hau Chang</b>	

**【Note】**

1. Minimum credits required for a master degree student are 30 including 12 credits from required courses and 18 credits from elective courses. The 12 credits of required courses include 6 credits of “Dissertation of Master degree”.
2. The 18 credits of elective courses have to include at least 3 “\*” courses.
3. The maximum limit for master student to select courses are 15 credits hours per semester.
4. In each semester, students can also choose other department’s courses or our department’s PhD courses, but it should follow through the application process of our department. (Our department’s website download form).
5. Master degree students must to submit at least one of the following English proficiency pass test score prior to their final Master dissertation exam:
  - I. Scores for 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).
  - II. General English Proficiency Test (GEPT) passed with High-Intermediate level (First Stage).
  - III. Scores for Test of English for International Communication (TOEIC) passed with 600 points (or above).
  - IV. Scores for International English Language Testing System (IELTS) passed with 5.5 points (or above).

\*Students are required to enroll the ‘English Courses’ and passed in the Center for Languages and Culture (KMU), if students failed to produce any one of the above English proficiency tests.
6. Every student must to enroll and finish the exam held by ‘Center for Taiwan Academic Research’, and get the certificate prior to their Master dissertation exam.

(Y→ Year, S→ Semester)