

Required Courses for Undergraduates in the Department of Chemistry, Autumn 2021 – Spring 2022

For detailed information and syllabuses please refer to <https://nol.ntu.edu.tw/nol/guest/index.php>

		1 st Semester		(2 nd Semester)	
		Courses Schedule	Instructor	Courses Schedule	Instructor
Required Courses	Freshman	General Chemistry (I) W F 34	Jin, Bih-Yaw	General Chemistry (II) W F 34	Chiu, Ching-Wen
		Chemistry Lab. (I) Tu 678	Teachers in charge of General Chemistry labs	Chemistry Lab. (II) Tu 678	Teachers in charge of General Chemistry labs
		Student Service Education (a) W 5 Student Service Education (b) F 5		Student Service Education (a) W 5 Student Service Education (b) F 5	
	Sophomore	Organic Chemistry (I) Tu 2 Th 34	Cheng, Richard Ping	Organic Chemistry (II) Tu 2 Th 34	Cheng, Richard Ping
		Analytical Chemistry (I) M 34 Th 2	Liao, Wei-Ssu	Analytical Chemistry (II) M 34 Th 2	Hsu, Cheng-Chih
		Chemistry Lab. (III) M 6-10/Tu 6-10	Chan, Yi-Tsu Cheng, Hsiu-Wei	Chemistry Lab. (IV) M 6-10/Tu 6-10	Wang, Tsung-Shing Cheng, Hsiu-Wei
				Physical Chemistry (II)- Quantum Chemistry Tu 34 F 2	Chan, Chun-Chung
		Student Service Education (a) W 5 Student Service Education (b) F 5		Student Service Education (a) W 5 Student Service Education (b) F 5	
	Junior	Physical Chemistry (I)-Thermodynamics W 2 F 34	Li, Hung-Wen		
		Inorganic Chemistry (I) M 2 W 34	Kong, Kien-Voon	Inorganic Chemistry (II) M 2 W 34	Kong, Kien-Voon
		Chemistry Lab. (V) M 6-10	Cheng, Yuan-Chung	Chemistry Lab. (V) M 6-10	Chan, Chun-Chung
		Student Service Education (II) Student Service Education (III)	Chairman, etc	Student Service Education (II) Student Service Education (III)	Chairman, etc
	Senior	Seminar(B.S.) M 89/Tu 89		Seminar(B.S.) M 89/Tu 89	

Elective Courses for Graduate students and Undergraduates, Autumn 2021 – Spring 2022

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Elective Courses		1 st Semester		2 nd Semester	
		Courses Schedule	Instructor	Courses Schedule	Instructor
(Undergraduates only)	Freshman			Professions in Chemistry W 7	Jin, Bih-Yaw
	Sophomore	Mathematics for Chemists W 789	Hsu, Liang-Yan		
		Junior	Research Training for Junior (I)	Chairperson	Research Training for Junior (II)
		Seminar for Junior (I)		Seminar for Junior (II)	
		Mathematics for Chemists W 789	Hsu, Liang-Yan	Physical Chemistry (III)- Kinetics and Dynamics F 234	Cheng, Yuan-Chung
		Organic Chemistry (III) Tu 234	Wang, Tsung-Shing		
	Senior	Research Training for Senior (I)		Research Training for Senior (II)	
		Seminar for Special Topics (I)		Seminar for Special Topics (II)	
		Mathematics for Chemists W 789	Hsu, Liang-Yan	Thesis (B.S.)	Chairperson
		Organic Chemistry (III) Tu 234	Wang, Tsung-Shing	Physical Chemistry (III)- Kinetics and Dynamics F 234	Cheng, Yuan-Chung

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Elective Courses	1 st Semester			2 nd Semester	
		Courses Schedule	Instructor	Courses Schedule	Instructor
For Juniors/ Seniors And Graduates	Organic Chemistry				
	Inorganic Chemistry	Materials Chemistry Th 6 F 67	Liu, Ru-Shi	Introduction to Synchrotron Radiation Related Research W 67	Sheu, Hwo-Shuenn
		Special Topics in Inorganic Chemistry Th 5 Master students only	Kong, Kien-Voon	Catalyst Chemistry M 67 W 2	Cheng, Soofin
	Physical Chemistry	Introduction to Magnetic Resonance M 1 Th 12	Chan, Chun-Chung	Solution-phase Spectroscopy and Dynamics; Fundamental and Applications W 89 F 6	Chou, Pi Tai
				Optical Methods in Biophysical Chemistry W 8910	Li,,Hung Wen
	Analytical Chemistry	Special Topics in Analytical Chemistry Th 234	Chang, Huan-Tsung	Mass Spectrometry Analysis and Imaging Tu 34 F 5	Hsu, Cheng-Chih
		Electrochemistry Tu 34 F 2	Chen, Chun-hsien	Special Topics in Analytical Chemistry Th 5 Master students only	Liao, Wei-Ssu
	Chemical Biology	Drug Design and Development F 67	Lin, Chun-Hung	Natural Product Chemistry Tu 34	Chu, Chung-Han

Required Courses for Graduate Students in the Department of Chemistry, Autumn 2021 – Spring 2022)

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		1 st Semester		2 nd Semester	
		Courses Schedule	Instructor	Courses Schedule	Instructor
Required Courses	See noted below	(Discussion in)Advanced Organic Chemistry (II) M F 34	Yang, Jye-Shane	(Discussion in)Advanced Organic Chemistry (I) M F 34 Lectured in English	Woo-Jin, Yoo
		(Discussion in)Advanced Inorganic Chemistry (I) W 234 Lectured in English	Ong, Tiow-Gan	(Discussion in)Advanced Inorganic Chemistry (II) Tu 6 Th 34	Chen, Hao-Ming
		(Discussion in)Advanced Analytical Chemistry (I) Tu 34 F 2	Chen, Chun-hsien	(Discussion in)Advanced Analytical Chemistry (II) Tu 34 F 2	Hsu, Cheng-Chih
		(Discussion in)Advanced Physical Chemistry (I) Tu 67 Th 2 Lectured in English	Cheng, Yuan-Chung	(Discussion in)Advanced Physical Chemistry (II) M 2 W 34 Lectured in English	TIGP
				Advanced Technical Writing for Chemical Sciences Tu 8910 Master students only	Cheng, Yuan-Chung
		(Discussion in)Advanced Chemical Biology(I) M Th 67 Lectured in English	Chu, Chung-Han	(Discussion in)Advanced Chemical Biology(II) F 234 Lectured in English	Lin, Chun-Hung
		Experimental Molecular Biophysics Lectured in English	IBS, NTU		

Notes: Students must take at least two courses, with additional requirements from each individual sub-discipline:

Organic: Advanced Organic Chemistry (I) or (II) (must take at least one of the two courses)

Inorganic: Advanced Inorganic Chemistry (I) or (II) (must take at least one of the two courses)

Analytical Chemistry: Advanced Analytical Chemistry (I) or (II) (must take at least one of the two courses)

Physical Chemistry: Advanced Physical Chemistry (I) or (II) or (III) (must take at least one of the three courses)

Chemical Biology: Advanced Chemical Biology (I) is required

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		Courses Schedule	Instructor	Courses Schedule	Instructor
Master students	First year	Teaching Practice in Chemistry I		Teaching Practice in Chemistry II	
	At least four semesters	Research Training		Research Training	
	At least four semesters 12 lecture reports required per semester	Literature on Chemistry (M.S.) Th 89/F 89		Literature on Chemistry (M.S.) Th 89/F 89	
	the semester of graduation	Thesis (M.S.)		Thesis (M.S.)	
Ph.D. students	First year	Teaching Practice in Chemistry I (Ph.D.)		Teaching Practice in Chemistry II (Ph.D.)	
	At least six semesters	Research Training		Research Training	
	At least six semesters 15 lecture reports required per semester	Literature on Chemistry (Ph.D.) Th 89/F 89		Literature on Chemistry (Ph.D.) Th 89/F 89	
	the semester of graduation	Dissertation (Ph.D.)		Dissertation (Ph.D.)	