

長庚大學 生物醫學研究所博士班 天然藥物組 必選修科目表 (一一四學年度入學學生適用)
Curriculum of the Ph.D. program in Natural Products division, Graduate Institute of Biomedical Sciences,
Chang Gung University (For students admitted in Fall, 2025)

Divisions	Required (R) or Elective (E)	Course Title	Credit	Year	Fall	Spring	Note
General Required Courses	z	書報討論 Seminar	8	1-4	4	4	Taught in English
	z	醫學新知導論 Current Topics in Biomedical Sciences	2	1	2		Core courses for the Ph.D. program. Completion of at least one course is required (starting in 2010).
	z	科學研究方法 Scientific Methods	2	1		2	
	z	科學倫理與論文寫作 Scientific Integrity and Scientific Writing (taught in English)	2	2		2	
	z	撰寫論文 Scientific Writing	0	2	0	0	
z	高等天然藥物學特論 Special Topics in Natural Products	2	1	2		Taught in English	
Division of Natural Products	z	高等天然藥物學特論 Special Topics in Natural Products	2	1	2		Taught in English
Elective courses	<	高等劑型設計特論 Special Topics in Dosage form Design	2	1	2		Taught in English
	<	天然物與血栓平衡 Natural Products and The Balance of Thrombosis	2	1	2		Taught in English
	<	藥效學特論 Special Topics in Pharmacodynamics	2	1		2	
	<	製藥生技學特論 Special Topics in Industrial Pharmaceutical Biotechnology	2	1		2	Taught in English
	<	發炎藥理學特論 Special Topics in Inflammopharmacology	2	1	2		
	<	藥廠與專利申請實務特論 Special Topics in The Pharmaceutical Factory and Patent Application	2	2	2		
	<	中藥資訊研究 Information Studies in Traditional Chinese Medicine	2	2	2		Taught in English
	<	高等藥物化學特論 Special Topics in Advanced Medicinal Chemistry	2	2	2		Taught in English
	<	高等基因藥理學特論 Special Topics in Pharmacogenomics	2	2		2	Taught in English
	<	表觀遺傳學特論 Special Topics in Epigenetics	2	2		2	Taught in English
	<	中草藥產業技術開發 Industrial Development of Chinese Medicine and Herbal Drugs	2	2		2	Taught in English
	<	應用於天然藥物開發之結構生物學 Structural biology for natural product-based drug discovery	2	2		2	Taught in English
	<	癌症與精準醫學中的天然藥物 Natural products in cancer and precision medicine	2	2		2	Taught in English
	<	藥理學特論 Special Topics in Pharmacology	2	2		2	Taught in English

NOTE

1. Students pursuing a PhD degree must fulfill a minimum 18 credits in course work and 6 credits for the PhD thesis.
2. Minimum compulsory credits for students in the Natural Products division are 12 credits.
3. The 6 credits for the "PhD Dissertation" are given only after completion and passing of the thesis defense.
4. Course selection and registration should be approved and signed by the thesis mentor.
5. For students with direct admission to the PhD program, up to 8 credits of courses can count towards graduation.
6. Accredited to take courses offered by doctoral programs in Graduate Institute of Clinical Medical Sciences.
7. Seminar is a required course for students in the third year or beyond (8 credits maximum). All courses listed above as well as other approved courses offered by the Clinical Medicine Graduate Program Division of Clinical Medicine can be taken to fulfill the requirements for elective courses. Students with direct admission to the PhD program should fulfill a graduation requirement of 30 credits (plus 6 credits for the dissertation), respectively.
8. Accredited to take courses in English courses offered by other doctoral programs in the school, no more than 50% of the total scores of the elective courses.
9. For international students in the Ph.D. program, the 18-credits requirement can be fulfilled by any courses in the above list, plus the seminar courses (8 credits total) and 6 credits of the "PhD Thesis" . Course selection should be consulted with and approved by the research adviser.
10. See PhD student manual for graduation requirements.