

National Cheng Kung University

Graduate Institute of Clinical Pharmacy and Pharmaceutical Technology

Clinical Pharmacy Division (Group A) Graduate Program Study Guidelines

(Applicable to students enrolled from Academic Year 2022)

Section 1 Purpose of the Program

The Clinical Pharmacy Division aims to cultivate professional talents in clinical pharmaceutical care:

1. Establish the theoretical foundation of clinical care through the study of Pharmacotherapy.
2. Enhance pharmaceutical care and communication skills through case discussions and clinical internships, while understanding the impact of changes in the healthcare system and policies.
3. Develop logical reasoning ability through the study of research design and courses related to clinical applications.

Graduates of the program are expected to possess solid professional skills, independent judgment, broad vision, and the ability to actively promote the advancement of the pharmacy profession.

Section 2 Curriculum

1. Graduation requirements: 13 required credits, 11 elective credits, and 6 thesis credits (in addition). Mandatory electives must be completed as listed in the curriculum table (Appendix 1).
2. In the second year, the course "Clinical Pharmacy Seminar (IV)" requires an oral presentation in English.
3. Hospital Pharmacy Practice: four weeks, usually from early August to early September of the first year.
4. Students must also participate in teaching and clinical services during their study.

Section 3 Master's Thesis

1. After completing clinical internships, students must select a specialty area for six months of training and achieve the following objectives:
 - (1) Accumulate practical experience in drug therapy and pharmaceutical care in the specialty area, such as providing consultations, monitoring efficacy, tracking and evaluating adverse drug reactions (ADRs), and patient education, with written documentation required.
 - (2) Complete a related research project, such as evaluation of pharmaceutical care interventions, clinical drug trials, systematic literature reviews on drug therapy, drug utilization analysis, assessment of drug efficacy, or ADR studies.
2. Both the oral defense and the written thesis must include the above outcomes.
3. At the end of the second semester of the first year, thesis topics proposed by faculty will be announced, and students will select topics and advisors according to their

research interests.

4. Proposal presentations shall be conducted during November–December of the first semester of the second year, and progress reports during March–April of the following semester.

Appendix 1 Curriculum Table

Year	Semester	Credits	Required	Required-Elective	Elective
1st Year	Fall	(1+8)=9	Clinical Pharmacy Seminar (I) Clinical Pharmacy Practicum (I) Clinical Pharmacokinetics	Hospital Pharmacy Practice	Special Topics in Adverse Drug Reactions (I)
1st Year	Spring	(7+4)=11	Clinical Pharmacy Seminar (II) Clinical Pharmacy Practicum (II)		Special Topics in Adverse Drug Reactions (II) Research Methods in Evidence-Based Medicine Special Topics in Pharmacotherapy (I)
2nd Year	Fall	(4+4)=8	Clinical Pharmacy Seminar (III)		Special Topics in Pharmacotherapy (II) Dosage Form Design Pharmacoepidemiology
2nd Year	Spring	(1)=0	Clinical Pharmacy Seminar (IV) Research Project		Clinical Drug Trial Research Pharmacotherapy*

Note: Pharmacotherapy is a required elective for graduates of the four-year Pharmacy program. Students graduating from NCKU's undergraduate Pharmacy program are exempted from Hospital Pharmacy Practice.