

National Cheng Kung University

Graduate Institute of Clinical Pharmacy and Pharmaceutical Technology

Medicinal Chemistry Division (Group C) Graduate Program Study Guidelines

(Applicable to students enrolled from Academic Year 2021)

Total Requirements:

- Required: 12 credits
- Electives: to reach a total of 24 credits (Master's thesis: 6 credits in addition)

Section 1 Core Courses (Required)

- Clinical Pharmacokinetics (3 credits)
- Advanced Topics in Pharmaceutical Sciences (3 credits)
- Journal Club in Pharmacokinetics (I) (II) (III) (IV) (4 credits)
- Advanced Physical Pharmacy (2 credits)
- Drug Bio-transport (2 credits)
- Experimental Design in Pharmaceutics (1 credit)

Section 2 Elective Courses

- Pharmacotherapy (4 credits)
- Biostatistics (2 credits)
- Epidemiology (College of Medicine integrated course) (2 credits)
- Therapeutic Drug Monitoring (1 credit)
- Introduction to Pharmacokinetics Software Applications (1 credit)
- Pharmacogenomics (1 credit)
- Advanced Topics in Pharmacogenomics (1 credit)
- Clinical Drug Trial Research (2 credits)
- Analysis and Application of Pharmacogenomic Databases (I) (2 credits)
- Analysis and Application of Pharmacogenomic Databases (II) (2 credits)
- Dosage Form Design (1 credit)
- Advanced Medicinal Chemistry and Drug Discovery (3 credits)

- Advanced Organic Spectroscopy (3 credits)
- Introduction to/Advanced Topics in Heterocyclic Chemistry (1 + 2 credits)

Appendix 1 Curriculum Table

Year	Semester	Credits	Required	Required-Elective	Elective
1st Year	Fall	(3+1)=6	Journal Club in Pharmacokinetics (I) Advanced Physical Pharmacy		
1st Year	Spring	1	Journal Club in Pharmacokinetics (II) Drug Bio-transport		
2nd Year	Fall	1	Journal Club in Pharmacokinetics (III)		
2nd Year	Spring	0	Journal Club in Pharmacokinetics (IV)* Research Project (0)		

Notes: (1) Pharmacotherapy is an elective but required for non-NCKU Pharmacy graduates. (2) Research Project is 0 credits but mandatory. (3) Courses marked * require presentation in English.