

National Cheng Kung University

Graduate Institute of Clinical Pharmacy and Pharmaceutical Technology

Biopharmaceutics and Genomics Division (Group B) Graduate Program Study Guidelines

(Applicable to students enrolled from Academic Year 2020)

Total Requirements:

- Required: 11 credits
- Required-elective (for Pharmacy students): 6 credits
- Required-elective (for non-Pharmacy students): 1 credit
- Other electives
- Total: 24 credits (Master's thesis: 6 credits in addition)

Section 1 Core Courses (Required + Required-Elective)

- 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)
- Dosage Form Design* (1 credit, required-elective)
- Experimental Design in Pharmaceutics* (1 credit, required-elective)
- Pharmacotherapy* (4 credits, required-elective; waived for NCKU Pharmacy graduates)

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) (II) (2 credits each)
- Advanced Medicinal Chemistry and Drug Discovery (3 credits)
- Clinical Pharmacy Seminar (I) (1 credit)
- Advanced Organic Spectroscopy (3 credits)

Appendix 1 Curriculum Table

Year	Semester	Credits	Required	Required-Elective	Elective
1st Year	Fall	0	Journal Club in Pharmacokinetics (I) Advanced Physical Pharmacy		
1st Year	Spring	0	Journal Club in Pharmacokinetics (II) Drug Bio-transport	Clinical Pharmacokinetics* (3) Advanced Topics in Pharmaceutical Sciences (3)	
2nd Year	Fall	0	Journal Club in Pharmacokinetics (III)	Dosage Form Design* (1) Experimental Design in Pharmaceutics* (1)	
2nd Year	Spring	0	Journal Club in Pharmacokinetics (IV) Research Project (0)		Pharmacotherapy* (4)

Notes: (1) Pharmacotherapy is required for non-NCKU Pharmacy graduates. (2) Courses marked * are required-elective for Pharmacy students. (3) Research Project is 0 credits but mandatory.