Course Requirements

Master's Program

Students have to complete 30 credits (including 6 credits for required courses, 18 credits for division core courses and elective courses and 6 credits for thesis).

Required courses: (6 credits)

- Seminar (4 credits, 1 credit each semester)
- Contemporary Research Techniques in Biomedical Sciences (2 credits)

Core Courses for each division:

Divisions	Division Core Courses	Credits for Division Core Courses	Elective Courses Credits To Take
Division of Biochemistry and Molecular Cell Biology	✧ Special Topics on Biochemistry (3) ✧ Methods for Molecular Cell Biology (2)	5	13
Division of Neurosciences and Psychiatry	✧ Research Methods in Neurosciences (2) ✧ Research in Behavioral Neurology (2) ✧ **Students must choose Either One: Signal Transduction in Neurons (2) or Special Topics of Sleep Science (2)** ✧ Fundamental Topics in Biostatistics (2)	8	10
Division of Physiology and Molecular Medicine	✧ Advanced Physiology (4) ✧ Special Topics in Molecular Medicine (I) (2) ✧ Conference Oral Presentation (1)	7	11
Division of Genome and Epidemiology	✧ Genomics (1) ✧ Fundamental Topics in Biostatistics (2) ✧ Practice in Fundamental Biostatistics (1)	4	14
Division of Translational Medicine	✧ Foundation of Molecular and Cellular Biology (2) ✧ Special Topics in Medical Biostatistics (3)	5	13
Division of Pharmacology and Clinical Pharmacology **Note: Students who do not take Pharmacology in undergraduate will**	Pharmacology ✧ Pharmacology (2) ✧ Special Topics in Pharmacology (2) ✧ Special Topics in Molecular Pharmacology (2) ✧ Experimental Pharmacology and Study Design (4)	10	8

take the course (4 credits) in undergraduate, but the course will not count in graduation credits.	Clinical Pharmacology	✧ Special Topics in Pharmacology (2) ✧ Special Topics in Clinical Drug Therapeutics (8)		
Division of Anatomy and Pathology	✧ Fundamental Topics in Biostatistics (2) ✧ **Students must choose Either One: Special Topics in Pathology (4) or Special Topics in Histology (4).**		6	12
Division of Microbiology, Immunology and Parasitology	✧ Special Topics in Microbiology (4) ✧ Special Topics in Immunology (2) ✧ Special Topics in Parasitology (Lecture & Laboratory) (4) ✧ Special Topics in Tropical Basic Medicine (Lecture & Laboratory) (4) ✧ Foundation of Molecular and Cellular Biology (2) ✧ (Fundamental/Intermediate) Topics in Biostatistics (2)		8 credits minimum	10
Division of Tropical Medicine and Global Health	✧ Recent Advance on Tropical Medicine and Global Health 1 (1) ✧ Recent Advance on Tropical Medicine and Global Health 2 (1) ✧ Recent Advance on Tropical Medicine and Global Health 3(1) ✧ Recent Advance on Tropical Medicine and Global Health 4 (1)		4	14

- Students must fulfill 24 credits, including required courses, core courses and elective courses in order to submit graduation application.

- Students must participate in conference at least once before graduation application. Format can be either oral or poster presentations at the conference and students must be the first author of the poster and presenting their own, original work. Students may waive this requirement with advisor's consent if publishing research may affect the patent application.

Elective courses (taught in English)

Time	Course	Credits
Fall session	Special Lecture for English Presentation (I)	2
Fall session	Genomics	1
Fall session	Foundation of Molecular and Cellular Biology	2
Fall session	Advanced Training for Biomedical Research (I)	3
Fall session	Special topics in Health Care Research Methods (offered by Department of Healthcare Administration and Medical Informatics, College of Health Sciences)	2
Spring session	Proteomics	1
Spring session	Special Lecture for English Presentation (II)	2
Spring session	Advanced Genomics	2
Spring session	Special Topics in Medical Biostatistics (including practice)	3
Spring session	Advanced Training for Biomedical Research (II)	3

Graduation application

- Application form (apply via student system http://wac.kmu.edu.tw)
  Note: Advisor must nominate three committee members. Two are on-campus teachers. (Advisor can be the committee members), and another one is off-campus member.
- Official Transcript(applied in Office of Academic Affairs)
- Master Thesis Draft