

คณะเทคนิคการแพทย์ มหาวิทยาลัยขอนแก่น Faculty of Associated Medical Sciences KKU

Biomedical science Khon Kaen University, Thailand



Biomedical science is a joint program between 7 faculties in Khon Kaen University including

- Faculty of Associated Medical Sciences
- Faculty of Dentistry
- Faculty of Medicine
- Faculty of Pharmaceutical Sciences
- Faculty of Science
- Faculty of Veterinary Medicine
- Faculty of Public Health

This Program focus on interdisciplinary research by using distinctive strength of each faculty to solve the public health problems, encourage comprehensive and integrated research. Biomedical science program aims to produce Masters and PhDs with deep academic knowledge in biomedical sciences that can communicate effectively and apply innovation and technology into theirs work.

Job opportunities :

- Biomedical scientist
- Microbiologist
- Forensic scientist
- Physician associate
- Medical sales representative
- Toxicologist
- Biotechnologist
- Medicinal chemist
- Higher education lecturer
- Research scientist (medical)
- Healthcare scientist, clinical biochemistry, genomics, hematology, immunology

Biomedical science	Master of science		Doctor of Philosophy			
Requirement	Bachelor degree		Bachelor degree		Master of science	
Program	A1	A2	1.2	2.2	1.1	2.1
Require courses	1 (not count)	7	-	9	-	6
Elective courses	-	9	-	14	-	6
Research credits (Thesis)	36	20	72	48	48	36
Total credits	36	36	72	72	48	48

A1, 1.1, and 1.2 is thesis only / A2, 2.1, and 2.2 is thesis with course work.

Master degree program

Require courses

Program A1 and A2: GS 217 891 is not count credit for the subject.

GS 217 702 Article Writing in Biomedical Science	2 (1-2-4) credits
GS 217 891 Seminar in Biomedical Sciences I	1 (1-0-2) credit
MD 567 714 Medical Sciences Research Methodology	3 (2-3-5) credits
GS XXX XXX Advances in Biomedical Science	2 (2-0-4) credits



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Elective courses

Track: Intelligent medical innovation

AM 137 510 Molecular Precision Medicine and Medical Bioinformatics	3 (1-6-4) credits
MD 627 732 Bioinformatics	2 (2-0-4) credits
MD XXX XXX Big Data Analytics in Medicine	2 (2-0-4) credits
Track: Innovation in healthcare services and one health	
GS 217 706 One Health in Biomedical Sciences	2 (2-0-4) credits
GS XXX XXX Human-Animal-Environment Interface	2 (2-0-4) credits
Track: Innovation for health and medical products	
GS 217 704 Biosensors in Biomedical Sciences	2 (2-0-4) credits
GS 217 707 Biomedical Sciences and Pharmaceutical Formulation Design	2 (2-0-4) credits
GS 217 708 Development of Natural Products	2 (2-0-4) credits
Other modules	
MD 567 712 Cells and Molecular Biology	3 (3-0-6) credits
AM 427 410 Immunobiology	2 (2-0-4) credits
AM 427 412 Immune System in the Elderly	2 (2-0-4) credits
AM 427 420 Molecular Genetics of The Major Histocompatibility Complex	2 (2-0-4) credits
AM 427 421 The Major Histocompatibility Complex Typing and Analysis	1 (0-3-2) credit
GS 217 703 Biomedical Sciences in the Elderly	2 (2-0-4) credits
AM 427 422 Transplantation Immunology and Applications in Transplantation Laboratories	2 (2-0-4) credits
BS 957 149 Entrepreneurship Healthcare and Health Sciences in Globalization	2 (2-0-4) credits

Doctoral degree program

• Require courses

Program 2.2: MD 567 714 is a compulsory course only for the study plan.

GS 217 702 Article Writing in Biomedical Science	2 (1-2-4) credits
GS 217 891 Seminar in Biomedical Sciences I	1 (1-0-2) credit
GS 217 891 Seminar in Biomedical Sciences II	1 (1-0-2) credit
MD 567 714 Medical Sciences Research Methodology	3 (2-3-5) credits
GS XXX XXX Advances in Biomedical Science	2 (2-0-4) credits



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