

Course Detail

Master of Science Program in Biomedical Sciences

Course Title:	Master of Science Program in Biomedical Sciences
Master Degree:	Master of Science (Biomedical Sciences)
Academic Institution:	Faculty of Allied Health Sciences, Naresuan University
Duration:	2 years (June 2024 – May 2026)

Background and Rational:

-By focusing on basic research, clinical research, and development research to create innovation, a course focuses on creating a Master's degree with knowledge and expertise in Biomedical Sciences.

-An interdisciplinary health sciences and medical research program that focuses on combining medical, health, and other sciences knowledge.

-By preparing to be an academic or researcher, the course's teaching and learning method emphasizes expertise of conducting research, presenting, and publishing research findings in public venues.

-Graduates of this degree will be qualified individuals in the medical and health sciences and will be able to conduct cutting-edge research, innovate, translate, distribute, and exchange academic information both nationally and worldwide.

- Faculty of Allied Health Sciences provide teaching and learning approach, and laboratory practice are supported by professional staffs and facilities.

Objectives:

To provide a Master's degree with the following qualifications

- The ability to think, analyze, and synthesize data in a scientific ways in order to conduct research or develop new ideas.

- The ability to use what has been learned to conduct study or develop new ideas.

- Proficiency in English and technological development for studying and presenting academic knowledge at a national or worldwide.

- Ability to work as part of a team to conduct research and disseminate research findings while conforming to research ethics and morals.

Course Synopsis and Methodology:

1. Study plan

Program structure

items	Study plan	
	Plan A	
	Type A 1	Type A 2
1. Course work (not less than)	-	24
1.1 Core Course (not less than)	-	6
1.2 Elective Course (not less than)	-	18
2. Thesis (not less than)	36	12
3. Core Course non-credit (not less than)	6	6
Total (not less than)	36	36

Course for Study Plan A Type A 1

Course

Thesis

Total 36 credits

Thesis 1, Type A 1

Thesis 2, Type A 1

Thesis 3, Type A 1

Thesis 4, Type A 1

Core Course non-credit

Total 6 credits

Research Methodology in Health Sciences (Non- credit)

Writing Scientific Paper (Non- credit)

Seminar 1 (Non- credit)

Seminar 2 (Non- credit)

Course for Study Plan A Type A 2

Course work

not less than 24 credits

Core Course

Total 6 credits

Current Topic in Biomedical Sciences

Fundamental of Cell Biology and Cell Biochemistry

or

Biostatistics in Biomedical Sciences

Thesis

Total 12 credits

Thesis 1, Type A 2

Thesis 2, Type A 2

Thesis 3, Type A 2

Core Course non-credit

Total 6 credits

Research Methodology in Health Sciences (Non- credit)

Writing Scientific Paper (Non- credit)

Seminar 1 (Non- credit)

Seminar 2 (Non- credit)

Elective Course

Total 18 credits

Specific Knowledge Major

Bioinformatics and Cybertools for Research

Cellular and Molecular Physiology of Cardiovascular System

Cellular and Molecular Radiation Biology

Molecular and Cellular Biology of Cancer

Drug Action

Human Biomedical System

Molecular Epidemiology

Anatomy and Physiology of the Eye and Visual System

Ocular Drug Delivery

Overview of Ocular Pharmacology

Research Techniques Major

Research Techniques in Immunology

Biomedical Science Research Instruments

Biomedical Sciences Research Laboratory

Research Techniques in Cardiovascular System

Gene and Recombinant DNA Technology in Biomedical Sciences

Cell Culture Techniques for Biomedical Research

Separation Techniques for Biomedical Research

Applied Knowledge Major

Laboratory Animal and Applications for Biomedical Research
Applied Microscopy for Biomedical Research
Applied Vision Science Research
Innovation in Biomedical Sciences

Graduation Conditions:

Naresuan University's Rules and Regulations for Graduate Studies 2016 in item 28.

Applicant Qualifications

Naresuan University's Rules and Regulations for Graduate Studies 2016 in item 5.

English Proficiency Test:

Applicant must hold a minimum score of English proficiency from either TOEFL (paper based or internet based; not TOEFL ITP) or IELTS as shown in the followings:

- | | |
|------------------------|----------------------------------|
| • Paper-based TOEFL | 417, 453 (International Program) |
| • Internet-based TOEFL | 35, 46 (International Program) |
| • IELTS | 5.0, 5.5 (International Program) |

Document Required

- TIPP application form (Download at: <https://tica-thaigov.mfa.go.th/en/page/75500-tipp-application-form?menu=605b13dbb6f1b76ed31778b3>)
- Medical Report (If candidates had submitted other health certificates without the TICA medical report form, their application will not be accepted for consideration)
- Transcript of Bachelor's degree (to show the courses that you have learnt throughout Bachelor's degree) with at least GPA. 2.75
- Certificate of Bachelor's degree
- English test score (e.g. TOEFL (Paper based 417 , 453) (Internet based 35 , 46) or IELTS (5.0 , 5.5))
- Recommendation Letter (At least 3 people)
- Curriculum Vitae
- Publication as a full paper in an International Journal

Contact:

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***The application procedure will complete when TICA has received the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/territories.