

Course Detail
Master of Science Program in Biopharmaceutical Sciences

Course Title:	MASTER OF SCIENCES PROGRAM IN BIOPHARMACEUTICAL SCIENCES (INTERNATIONAL PROGRAM)
Master Degree:	Master of Science (Biopharmaceutical Sciences)
Academic Institution:	Faculty of Pharmacy, Mahidol University
Duration:	2 years August 2020 – July 2022

Background and Rational:

The philosophy of Biopharmaceutical Sciences program is to nurture and value fundamental research to catalyze a new innovation platform. The mission of Biopharmaceutical Sciences program is to provide prospective and current graduate students with an educational and research environment that fosters personal and intellectual growth and develops career paths through necessary training with emerging technologies.

The program offers graduate degree programs as follows:

A Master of Science degree program offers M.Sc. (Biopharmaceutical Sciences) degree with two concentration tracks:

A non-coursework Master's degree program that supports the needs of persons seeking graduate education to enhance and expand their career options. The students must have at least 3 years of experience in health science or related disciplines in sciences. Additionally, at least one research publication is also required to enter the program.

A coursework Master's degree program that fosters close collaboration between research and academic needs. It is designed for students who seek academic careers or positions in research and development (R&D) industry.

The Biopharmaceutical Sciences program offers four major concentrations which will define the required coursework under responsibility of four departments: biochemistry, microbiology, pharmacology and physiology. The program provides a Master's degree for the student who holds a Bachelor's degree and would like to enhance the professional competence. Upon completion of the studies, the graduate would become a specialist in the field of pharmaceutical-related biological sciences and ready to work with either academic, research, public health or industrial pharmaceutical institution.

Research in biopharmaceutical sciences requires an interdisciplinary approach, which integrate knowledge in biochemistry, microbiology, pharmacology and physiology. On-going research activities involve in fundamental and applied research on biopharmaceutical sciences to develop novel drugs and acquire knowledge in molecular mechanism of diseases. In addition, biotechnology approaches are also area of interest.

Objectives:

1. Have high moral standard and ethics.
2. Have knowledge and understanding of principles in the biopharmaceutical sciences related to the field of microbiology, biochemistry, pharmacology and physiology.
3. Have skills in creating quality research, can analyze problem as well as apply knowledge of the biopharmaceutical sciences for new knowledge and development of sciences and technology.
4. Have interpersonal relationship and social responsibility.
5. Have analytical, communication and information technology skills.

Course Synopsis and Methodology:**Study plan**

M.Sc. in Biopharmaceutical Sciences Program

Plan A1

Research M.Sc. Thesis 36 credits

Plan A2

Year	Semester 1	Semester 2
1	Cell and Molecular Biology (3 credits) Research Methodology in Pharmacy I (2 credits) Biostatistics (3 credits) <u>Course by Major area (8 credits)</u>	Seminar in Biopharmaceutical Sciences (1 credits) Elective courses (6 credits)
2	Special Topics in Biopharmaceutical Sciences (1 credits) Research M.Sc. Thesis (12 credits)	

Course Content

	Plan A Segment A1	Plan A Segment A2
(1) Core courses	not count Credits	10 Credits
(2) Compulsory courses	---	8 Credits
(3) Elective courses	---	6 Credits
(4) Thesis	36 Credits	12 Credits
Not less than	36 Credits	36 Credits

Graduation Conditions:

Thesis defense	At least 3 months after proposal exam	At least 3 months after proposal exam
Graduate and Exit assessment	Passed English Proficiency test Passed thesis defense Paper publication (at least 1) Exit interview	Passed English Proficiency test Passed thesis defense Paper publication or Conference proceeding (at least 1) Exit interview

Applicant Qualifications

	B.Sc. Graduated (Plan A1)	B.Sc. Graduated (Plan A2)
Entrance Assessment	GPA \geq 2.75 Research experience > 3 years Publication \geq 1 English Proficiency test Interview	GPA \geq 2.5 English Proficiency test Interview

Document Required

- TIPP Application form
- Medical Report
<http://tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>
- Transcript
- Recommendation Letter
- English Proficiency Test Report

Contact:

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***Please remind that the application will complete when TICA receive 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/territories.