

**Course Detail**  
**Master of Science Program in Biomedical Sciences (International Program)**

<b>Course Title:</b>	Master of Science Program in Biomedical Sciences
<b>Master Degree</b>	Master of Science (Biomedical Sciences) M.Sc. (Biomedical Sciences)
<b>Academic Institution</b>	School of Allied Health Sciences, Walailak University
<b>Duration</b>	2 years (May, 2021-April, 2023)

**Background and Rational**

Graduate of Master of Science Program in Biomedical Sciences is aimed for developing new state of the art in medical science and bioscience in a wide range of fields such as molecular biology, human genetics, cytogenetics, medical biochemistry, oncology, stem cell technology, biotechnology, nutrition, toxicology, hematology, immunology, microbiology, kinesiology and physical therapy, bioinformatics, and medical innovation. Teaching both theory and practice is an attempt to enhance learners who will apply knowledge in research on medical science and bioscience.

Both theory and practice are focused on applying the knowledge to research in medical science and bioscience. Laboratory techniques and research methodology play an important role in enabling the graduates to gain knowledge and skills and to conduct research following academic progress. They are able to integrate effectively between modern technology and grounded theory in order to establish groundbreaking body of knowledge. In addition, the graduates are expected to work efficiently in collaboration with health science team, to acquire considerable interpersonal skills, to adopt morality and ethics, and to have responsibility to self and society as well.

**Objectives**

1. To develop an advanced academic knowledge in the field of Biomedical Sciences with integration, application, and innovation the new knowledge
2. To develop the skills of thinking, analyzing, and synthesizing systematically with able to solve the problem effectively in various situations
3. To generate and create the academic progress continuously, and develop biomedical researches for benefit and impact to the society
4. To publicize and exchange the academic knowledge at the international level
5. To develop a moral person, professional ethics, and ethical research with the responsibility for themselves and society

**Course Synopsis and Methodology**

**Study Plan**

: Trimester system (12 weeks/semester)

: Research program (45 credits) with seminar

<b>Year</b>	<b>1<sup>st</sup> semester</b>	<b>2<sup>nd</sup> semester</b>	<b>3<sup>rd</sup> semester</b>
1	Thesis (5 credits)	BMS seminar Thesis (8 credits)	Thesis (8 credits)
<b>Total</b>	<b>21 credits</b>		
2	Thesis (8 credits)	Thesis (9 credits)	Thesis (7 credits)
<b>Total</b>	<b>24 credits</b>		

**Course Content/ Study Topic****Required courses****Thesis**

Research study in biomedical sciences for plan A1; development of research methodology including research design, conducting research proposal, data collection and analysis; manuscript preparation and publication in a peer-reviewed national or international journal; thesis report and defense under supervision of the thesis advisory committee; moral and code of ethics for research

**Biomedical Sciences Seminar I**

A review of current research publications and advanced topics in biomedical sciences; analysis, discussion, conclusion, preparation and presentation

**Graduation Conditions**

1. Complete one's full-time studies according to curricula structures.
2. Complete all required courses and obtain a grading record that satisfies the requirements of the program.
3. Meet the non-native language proficiency requirements.
4. Pass a thesis examination with the result Passed (if Passed with Conditions, the student must revise the thesis until the result shows Passed).
5. Submit a document that shows that the thesis or a part of the thesis is (1) published or (2) accepted for publication in a journal (ISI/SCOPUS).

**Applicants Qualifications**

1. Hold a Bachelor of Science (B.Sc. degree) or equivalent with GPAX of at least 3.50 of total 4.00 or equivalent,
2. English test results meet the criteria TOEFL (Paper-based) 550 or equivalent,
3. Meet specific requirements set by the Program Committee

**Document Required**

1. The program application (TIPP); the application form could be downloaded from this linked URL <http://tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>
2. The academic qualifications/transcript
3. Applicants from a country where English is not the first language must enclose English proficiency test result. The result must not be more than two years. The applicants should have an English proficiency score of TOEFL Paper-based: 550 or equivalent. Prepare a concept proposal or statement of purpose essay on your proposed thesis topic.
4. A copy of your passport
5. Curriculum vitae (CV)
6. Recommendation Letter

**Contacts****1. Program Chairperson**

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**2. Coordinator**

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**For more information:**

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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.