# Faculty of Allied Health Sciences, Thammasat University

Degree:	Master of Science Program in Biomedical Sciences (International Program)	
Study period:	2 Years	
Accumulated cr	redits for graduation: 40 credits	
Entry Qualifica	<b>tions:</b> Bachelor's degree in a relevant discipline, high proficiency in English, professional experience is preferred.	
Tuition:	100,000 Baht	
1. Required sub	jects: (14 Credit)	
BM 600	Cell and Molecular Biology (3 credits)	
BM 606	Genetic Engineering (2 credits)	
BM 673	Tropical Diseases (2 credits)	
BM 680	Biostatistics (2 credits)	
BM 681	Research Methodology (2 credits)	
BM 682	Ethics in Biomedical Research (1 credit)	
BM 690	Seminar in Biomedical Sciences 1 (1 credit)	
BM 691	Seminar in Biomedical Sciences 2 (1 credit)	

### 2. Elective subjects: (4 Credit)

### 2.1 Elective subjects: for Molecular Biology and Bioinformatics:

BM 600	Cell and	Molecular	Biology	(3 credits)
--------	----------	-----------	---------	-------------

- BM 606 Genetic Engineering (2 credits)
- BM 673 Tropical Diseases (2 credits)
- BM 680 Biostatistics (2 credits)
- BM 681 Research Methodology (2 credits)
- BM 682 Ethics in Biomedical Research (1 credit)
- BM 690 Seminar in Biomedical Sciences 1 (1 credit)
- BM 691 Seminar in Biomedical Sciences 2 (1 credit)

#### 2.2 Elective subjects for Molecular Immunology and Microbiology:

- BM 601 Immunology 1 (2 credits)
- BM 602 Immunology 2 (2 credits)
- BM 604 Molecular Microbiology (2 credits)
- BM 621 Transfusion Sciences (2 credits)
- BM 656 Research Techniques in Molecular Biology (2 credits)
- BM 658 Research Techniques in Molecular Microbiology (2 credits)
- BM 659 Research Techniques in Molecular Immunology (2 credits)
- BM 747 Special Topics in Molecular Microbiology

# 2.3 Elective subjects for Clinical Biochemistry and Toxicology:

BM 607	Molecular Genetics (2 credits)
BM 613	Fundamental of Pharmacology and Toxicology (2 credits)
BM 617	Molecular and Biochemical Toxicology (2 credits)
BM 618	Modern Biochemistry (2 credits)
BM 619	Biochemistry of Human Disease (2 credits)
BM 666	Research Techniques in Pharmacology and Toxicology (2 credits)
BM 744	Special Topics in Pharmacology (2 credits)

# 2.4 Elective subjects for Product Research and Development:

BM 607	Molecular Genetics (2 credits)
BM 613	Fundamental of Pharmacology and Toxicology (2 credits)
BM 730	Advanced and Current Technology in Biomedical Sciences (2 credits)
BM 751	Principles of Product Research and Development (2 credits)
BM 753	Modern Technologies in Product Research and Development (2 credits)

### 2.5 Elective subjects for Epidemiology of Infectious Diseases:

BM 608	Principles and Methods of Epidemiology 1 (2 credits)
BM 609	Epidemiology of Infectious Diseases (2 credits)
BM 611	Biostatistical Methods (2 credits)
BM 612	Principles and Methods of Epidemiology 2 (2 credits)

# **3. Free electives subjects:** (4 credits)

BM 602	Immunology 2 (2 credits)
BM 604	Molecular Microbiology (2 credits)
BM 607	Molecular Genetics (2 credits)
BM 608	Principles and Methods of Epidemiology 1 (2 credits)
BM 656	Research Techniques in Molecular Biology (2 credits)
BM 657	Research Techniques in Molecular Parasitology (2 credits)
BM 658	Research Techniques in Molecular Microbiology (2 credits)
BM 659	Research Techniques in Molecular Immunology (2 credits)
BM 666	Research Techniques in Pharmacology and Toxicology (2 credits)
BM 667	Techniques in Cells and Tissue Culture (2 credits)
BM 683	Statistical Analysis of Infectious Epidemiological Research (2 credits)
BM 684	Computer Application in Data Processing in Biomedical Research (2 credits)
BM 692	Seminar in Biomedical Sciences 3 (2 credits)
BM 703	Advances in Immunology (2 credits)
BM 713	Advances in Pharmacology and Toxicology (2 credits)
BM 724	Recent Research Techniques in Hematologic Disorders (2 credits)
BM 730	Advanced and Current Technology in Biomedical Sciences (2 credits)
BM 738	Special Topics in Transfusion Sciences (2 credits)
BM 739	Special Topics in Cilnical Hematology (2 credits)
BM 742	Special Topics in Clinical Biochemistry (2 credits)

BM 743 Special Topics in Toxicology (2 credits)

BM 744	Special Topics in Pharmacology (2 credits)
BM 745	Special Topics in Epidemiology (2 credits)
BM 746	Special Topics in Molecular Immunology (2 credits)
BM 747	Special Topics in Molecular Microbiology (2 credits)
BM 748	Special Topics in Molecular Parasitology (2 credits)
BM 752	Special Topics in Product Research and Development
BM 753	Modern Technologies in Product Research and Development (2 credits)
BM 754	Research Techniques in Product Research and Development (2 credits)
BM 786	Computer Application in Molecular Biology (2 credits)

4. Thesis (18 Credit)

BM 804 Thesis (18 credits)