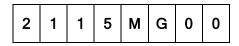
Admission Number



Master of Science Programme	in Biotechnology (International Programme)			
หลักสูตร วิทยาศาสตรมหาบัณฑิต สาขาวิชา เทคโนโลยีชีวภาพ (หลักสูตรนานาชาติ) (ภาคปกติ)				
Faculty of Science	Department of Biotechnology			
ลณะวิทยาศาสตร์	ภาควิชา เทคโนโลยีชีวภาพ			
Expected number of students to be accepted all year round: 30 Students				

Admission Requirements

A candidate must:

Plan A, Type A(1)

- 1. hold a Bachelor's degree in Biotechnology or related fields;
- 2. have a grade point average of at least 3.0
- 3. have a work experience in research unit or industry related with biotechnology at least 1 year
- 4. is granted a permission to pursue and educational leave from his/her employer
- 5. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internetbased score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.

Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

6. In case your qualification does not match to the admission criteria, candidates must prior attach A Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here:

http://www.grad.mahidol.ac.th/grad/admission/form_th.php

Exemptions from the above conditions may be granted by the Programme Committee under exceptional circumstances

Plan A, Type A (2)

- 1. hold a Bachelor's degree or equivalent in Biotechnology or related fields;
- 2. have a grade point average f at least 2.50;
- have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internetbased score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.

Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day. 4. In case your qualification does not match to the admission criteria, candidates must prior attach A Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here: http://www.grad.mahidol.ac.th/grad/admission/form_th.php

Exemptions from the above conditions may be granted by the Programme Committee under exceptional circumstances

A candidate is requested to specify - research modules from the followings : Agricultural Biotechnology, Food Biotechnology, Industrial Biotechnology and Bioprocess Engineering, Molecular Biotechnology.

Written Examination (Applicants must attend the examination date accurately to your admission round.)

<u>First Round</u> January 17, 2015		<u>Second Round</u> May 16, 2015	
Subjects for examination	Time	Subjects for examination	Time
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.
3. Biotechnology)	3. Biotechnology	
4. Biochemistry		4. Biochemistry	
5. Choose one field	1.30 - 4.30 p.m.	5. Choose one field	1.30 - 4.30 p.m.
- Microbiology		- Microbiology	
- Chemistry	J	- Chemistry	J
Examination Place	1		

Mahidol University, Salaya, Nakhonpathom more details: www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Curriculum Structure

	Plan A ,Type A (1)	Credit Plan A ,Type A (2)
Required Courses	4	15
Elective Courses not less than	4	9
Thesis	36	12

Required Courses	Credit		
SCID 506 Concepts of Molecular Bioscience	2(2-0-4)		
SCID 516 Biostatistics	3(3-0-6)		
SCBT 591 Special Topics in Biotechnology I	1(1-0-2)		
SCBT 592 Special Topics in Biotechnology II	1(1-0-2)		
SCBT 605 Techniques in Biotechnology	3(0-9-3)		
SCBT 615 Advanced Industrial Biotechnology I	3(3-0-6)		
SCBT 691 Biotechnology Seminar I	1(1-0-2)		
SCBT 692 Biotechnology Seminar II	1(1-0-2)		
Elective Courses	1(1-0-2)		
SCID 518 Generic Skills in Science Research	1(1-0-2)		
SCBT 502 Recombinant DNA Technology	3(3-0-6)		
SCBT 511 Fermentation Technology	3(3-0-6)		
SCBT 514 Bioprocess Engineering for Bio-Renewable Resources	3(3-0-6)		
SCBT 531 Food Science and Technology	3 (3-0-6)		
SCBT 601 Plant Biochemistry and Molecular Biology	3(3-0-6)		
SCBT 602 Gene Regulation	3(3-0-6)		
SCBT 604 Advanced Animal Cell Technology	3(3-0-6)		
SCBT 608 Current Topics in Biotechnology	3(3-0-6)		
SCBT 609 Biology and Pathobiology of Shrimp	3(2-3-5)		
SCBT 610 Biotechnology Commercialization	2(2-0-4)		
SCBT 611 Advanced Bioprocess Engineering	3(3-0-6)		
SCBT 631 Advanced Food Technology	3(3-0-6)		
Thesis			
SCBT 698 Thesis	12(0-48-0)		
SCBT 798 Thesis	36(0-144-0)		
* These may change in cases where there are suggestions for the improvement of the curriculum			

Additional advantages of the programme

The future prosperity of Thai agro-industries and pharmaceutical-industries will depend a great deal upon our strength in the science of biotechnology. The Department of Biotechnology at Faculty of Science, Mahidol University grew up as a unique multidisciplinary center to promote the application of a wide range of basic knowledge in biology, microbiology, chemistry, biochemistry, genetic engineering and bioprocess engineering. To date, many students have graduated and joined in the effort to develop our country as employees in government and private organizations involved in production, quality control, quality assurance, research and development of agro-industries and pharmaceutical-industries. In addition to providing quality graduates, the Department is one of the most important research centers which emphasizes recent applications of biotechnology in areas relevant to the development of Thailand.

Details of Scholarships

- Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej (Faculty of Graduate Studies and Department of Biotechnology)
- 2. Thailand Research Fund Master Research Grant (TRF MAG)
- 3. Thailand Graduate Institute of Science and Technology Grants (TGIST) (NSTDA)
- 4. Partial Tuition Scholarship (Department of Biotechnology)
- 5. Strengthening Young Scientist Scholarship (Faculty of Science)
- 6. Teaching Assistantships, Research Assistantships, and Student Assistantships (Faculty of Science)
- 7. Research and Researcher for Industry (TRF)

Application Process

Application is only available via online application at www.grad.mahidol.ac.th

Required Documents

Prepare the following required documents to submit via online admission system or post :

- Two (2) recent photographs (1x1 inch in size)

-	A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)	2 copies
-	A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)	2 copies
-	A detailed transcript of a degree (for an applicant with a degree completion)	2 copies
-	A grade report with course names and grades received from the first to the current semester prior to graduation	2 copies
-	A copy of identification card	2 copies
-	A copy of house registration certification	2 copies
-	A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here:	2 copies
	http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php	
	Those who early submit a valid English score prior to the examination will be exempt	
	from English test on the examination date.	

- A copy of proof of payment. -
- A proposal/concept paper (form provided) 1 copy
- Recommendation letter from 2 recommenders (form provided) 1 copy/each _

Submitting documents via online admission system.

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in ipeg format only (maximum size 2 MB)

Job option after graduation

- Scientist/ Researcher/ Lecturer who work at government agencies and private.
- Quality Assurance Analyst/Quality Control Analyst -
- Sales staff of materials science /or food and drug.

Further information may be obtained from the Director of the Graduate Studies, Biotechnology :

- 1. Assoc.Prof.Dr.Chuenchit Boonchird (E-mail : headscbt@mahidol.ac.th) Room BT 212, Biotechnology Building, Floor 2, Department of Biotechnology, Faculty of Science. Tel. : 0 2201 5309 - 12 Fax. : 0 2354 7160
- 2. Asst.Dr. Thunyarat Pongtharangkul (E-mail: thunyarat.pon@mahidol.ac.th) Room BT 210, Biotechnology Building, Floor 2, Department of Biotechnology, Faculty of Science. Tel. : 0 2201 5315 Fax. : 0 2354 7160

Program Coordinator

(E-mail : nittaya.jee@mahidol.ac.th) Mrs. Nittaya Jeenkord Room BT 212, Biotechnology Building, Floor 2, Department of Biotechnology, Faculty of Science. Tel. : 0 2201 5310 Fax. : 0 2354 7160

- Notes 1. The programme of Biotechnology requires students to study the pre requisite course: - SCID 500 Cell and Molecular Biology 3 Credits
 - 2. For more education information : www.grad.mahidol.ac.th

For more information please contact The Student Admission Section. Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th