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Master of Science Programme in Microbiology (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา จุลชีววิทยา (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Microbiology

คณะวิทยาศาสตร์

ภาควิชา จุลชีววิทยา

Expected number of students to be accepted all year round : 20 Students

Admission Requirements

A candidate must:

1. Receive a bachelor degree in Science such as Microbiology, Biology, Biochemistry, Biotechnology, Medical technology, Public Health, Chemistry, Food Science, Veterinary, Medicine, Dentistry, Pharmacology, Biological science etc or equivalence
2. have a grade point average of at least 2.50
3. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based 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

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

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. Biology	} 1.30 - 4.30 p.m.	3. Biology	} 1.30 - 4.30 p.m.
4. Biochemistry			
5. Microbiology			
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.			

Curriculum Structure

	Credits
Required courses	15
Elective courses not less than	9
Thesis	12

	Credits
Required courses	
GRID 521 Research Ethics	1(1-0-2)
SCID 502 Cell Science	2(2-0-4)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCMI 514 Immunology	1(1-0-2)
SCMI 515 Bacteriology and Mycology	1(1-0-2)
SCMI 516 Virology	1(1-0-2)
SCMI 517 Parasitology	1(1-0-2)
SCMI 611 Special Topics in Microbiology	1(1-0-2)
SCMI 612 Microbiology Seminar	1(1-0-2)
SCMI 621 Special Topics in Microbiology II	1(1-0-2)
SCMI 622 Microbiology Seminar II	1(1-0-2)
SCMI 615 Current Topics in Immunology	3(3-0-6)
SCMI 616 Current Topics in Bacteriology and Mycology	3(3-0-6)
SCMI 617 Current Topics in Virology	3(3-0-6)
SCMI 618 Current Topics in Parasitology	3(3-0-6)
SCMI 615-618 the students used to register only 1 course that is related to the students research topic	
Elective courses	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 506 Concepts of Molecular Bioscience	2(2-0-4)
SCID 507 Microscopic Technique	1(0-2-1)
SCID 508 Biomolecular and Spectroscopy Techniques	1(0-2-1)
SCID 509 Separation Techniques	1(0-2-1)
SCID 510 Immunological Methods	1(0-2-1)
SCID 511 Gene Technology	1(0-2-1)
SCID 512 Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)
SCID 513 Animal Cell Culture Techniques	1(0-2-1)
SCID 514 Animal Experimentation in Biomedical Research	1(0-2-1)
SCID 516 Biostatistics	3(3-0-6)
Thesis	
SCMI 698 Thesis	12(0-36-0)
* These may change in cases where there are suggestions for the improvement of the curriculum	

Additional advantages of the programme

Special consideration by the Committee of Graduate Programme will be given to Master's students who have a GPA of 3.5 or above and who wish to become Ph.D. students.

Details of Scholarships

Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.

Additional information for applicants

Well-equipped laboratory facilities

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: http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php 2 copies
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.
- Three letters of recommendation (for International students) 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 jpeg format only (maximum size 2 MB)

Job option after graduation

- Lecturer
- Researcher
- Academic
- Academic specialists or Lecturers in Microbiology and Immunology, Biomedical Sciences and Applied sciences in the university
- Researchers or research consultants in Molecular genetics, Microbiology and scientific instruments in Government institutions, state enterprise and private sections
- Specialists or academic consultants of private sections concerning products that are related to molecular genetics, microbes and scientific instruments
- Freelance

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

1. Asst. Prof. Dr. Padungsri Dubbs (E-mail : padungsri.vic@mahidol.ac.th)

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2. Asst. Prof. Dr. Suthep Wiyakrutta (E-mail : suthep.wiy@mahidol.ac.th)

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Program Coordinator

Miss Wanitchaya Jantararat (E-mail : annakung1430@gmail.com)

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Department of Microbiology, Faculty of Science.

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Fax. : 0 2644 5411

- Notes**
1. The programme of Microbiology requires students to study the pre - requisite course:
 - SCID 500 Cell and Molecular Biology 3 Credits
 2. For more education information : <http://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**