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Master of Science Programme in Microbiology (International Programme)

หลักสูตร วิทยาศาสตรมหาบัณฑิต

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. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
 - MU GRAD TEST (Computer based) - at least 36

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
 - Application without submitting a valid English certificate will NOT be considered.
 - MU English Competence Standards: www.grad.mahidol.ac.th
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
4. 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)

Subjects for examination	Time (Morning session)
1. Biology 2. Biochemistry 3. Microbiology	} 9.00 - 12.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

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.

Application Process

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

Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format.

- 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)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency :
IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST(Computer based)
- A copy of proof of payment.
- Three letters of recommendation (for International students)

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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Program Coordinator

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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