

Admission Number

7	2	0	4	D	G	0	0
---	---	---	---	---	---	---	---

Doctor of Philosophy Programme in Systems Biosciences (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา ชีววิทยาศาสตร์เชิงระบบ (หลักสูตรนานาชาติ) (ภาคปกติ)

Institute of Molecular Biosciences

สถาบันชีววิทยาศาสตร์โมเลกุล

Expected number of students to be accepted year round : 10 Students

Admission Requirements

A candidate must :

For students with a Bachelor's degree

1. Must hold an M.D., D.D.S., D.V.M., Plan B. or Bachelor degree in Medical Science, Life Science or a related field from a Commission on Higher Education certified institution, or studying in a Ph.D.-M.D. or Ph.D.-D.D.S. program.
2. have a grade point average of at least 3.50;
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

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

For students with a Master's degree

1. Must hold a Master degree in Medical Science, Life Science, or a related field from a Commission on Higher Education certified institution.
2. have a grade point average of at least 3.50 or have at least one scientific publication in a peer review journal with an impact factor
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

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. Exemptions 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	9.00 - 11.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Curriculum Structure

	Credit
For students with a Master's degree	
Required Courses	9
Elective Courses no less than	3
Thesis	36
For students with a Bachelor's degree	
Required Courses	14
Elective Courses no less than	10
Thesis	48

	Credit
Required Courses	
For students with a Master's degree	
MBSB 501 Systems Biosciences	3(3-0-6)
MBSB 502 Applied Systems Biosciences	3(3-0-6)
MBSB 511 Molecular Biosciences Seminar	1(1-0-2)

MBSB	512	Systems Biology Seminar	1(1-0-2)
GRID	521	Research Ethics	1(1-0-2)

For students with a Bachelor's degree

SCID	500	Cell and Molecular Biology	3(3-0-6)
MBSB	501	Systems Biosciences	3(3-0-6)
MBSB	502	Applied Systems Biosciences	3(3-0-6)
MBSB	503	Research in Systems Biosciences	2(0-6-2)
MBSB	511	Molecular Biosciences Seminar	1(1-0-2)
MBSB	512	Systems Biology Seminar	1(1-0-2)
GRID	521	Research Ethics	1(1-0-2)

Elective Courses

For students with a Master's degree no less than 3 Credit

For students with a Bachelor's degree no less than 10 Credit

MBSB	601	Stem Cell and Regenerative Biology	3(3-0-6)
MBSB	602	Cellular and Molecular Biology of Thalassemia	2(2-0-4)
MBSB	603	Molecular Diagnosis and Molecular Therapy	2(2-0-4)
MBSB	604	Virus-Cell Interactions and Immunity	3(3-0-6)
MBMG	501	Genetic Engineering	3(3-0-6)
MBMG	502	Molecular Genetics	3(3-0-6)
MBMG	602	Computer Applications in Molecular Biology	2(1-2-3)
SCPS	631	Systems Physiology	4(3-2-7)
GRID	603	Biostatistics	3(3-0-6)

Student may select any other graduate course within Mahidol University or any other university by approval of the Programme Committee or Major Advisor.

Thesis

For students with a Master's degree

MBSB	699	Dissertation	36(0-108-0)
------	-----	--------------	-------------

For students with a Bachelor's degree

MBSB	799	Dissertation	48(0-144-0)
------	-----	--------------	-------------

* These may change in cases where there are suggestions for improvement of the curriculum

Additional advantages of the programme

Our programme is one of first programmes in Systems Biosciences in Thailand. The programme provides research opportunities in several research areas including stem cells, host virus interactions and immunity, vaccine development, gene therapy, nutrigenomic, and thalassemia

Application Process

- Application is 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 the 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 the applicants' identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency : IELTS / TOEFL INTERNET BASED / TOEFL ITP
- A copy of proof of payment.

Job option after graduation

- Biosciences educator in any academic institution
- Biosciences researchers in any academic institution in either Thailand or abroad, or in private company
- Biosciences Consultant

Further information may be obtained from the Director of Graduate Studies Systems Biosciences

1. Assoc.Prof. Dr. M.L.Saovaros Svasti (E-mail: saovaros.sva@mahidol.ac.th)

Room A301, Building Institute of Molecular Biosciences, 3rd Floor,

Thalassemia Research Center, Institute of Molecular Biosciences,

Mahidol University, Salaya.

Tel: 02-441-9003 to 7 ext 1314 Fax: 02-441-1013

2. Dr. Narisorn Kitiyanant (E-mail: narisorn.kit@mahidol.ac.th)

Room C308, Building Institute of Molecular Biosciences, 3rd Floor,

Stem Cell Research Group, Institute of Molecular Biosciences,

Mahidol University, Salaya.

Tel: 02-441-9003 to 7 ext 1366 Fax: 02-441-1013

Program Coordinator

1. Ms. Siriporn Monkasemsiri (E-mail: siriporn.mon@mahidol.ac.th)

Room A301, Building Institute of Molecular Biosciences, 3rd Floor,

Office of Education Management, Institute of Molecular Biosciences,

Mahidol University, Salaya.

Tel: 088-9541964, 02-441-9003 to 7 ext 1314,1316 Fax: 02-441-1013

- Notes**
1. Students must pass SCID 500 Cell and Molecular Biology 3 Credits as a pre - requisite course:
 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