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Doctor of Philosophy Programme in Systems Biosciences (International Programme)

Institute of Molecular Biosciences

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 3.5;
3. have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

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 3.5 or have at least one scientific publication in a peer review journal with an impact factor
3. have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

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

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

Curriculum Structure

			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 or by mail

Required Documents

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

1. Completed an Online Application at www.grad.mahidol.ac.th which comprised with
 - Form A** : Application Form
 - Form B** : Background and Proposed Field of Study
 - Form C** : Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)

(For Doctoral Program)

- TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5

(For Master's Program)

- TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

Notes

- Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
 - TOEFL ITP taken from other domestic and overseas institutes are invalid.
 - The test date must be within previous 2 years before application date
 - Applicant who obtained a valid English score must submit an **official score certificate** along with your application. Otherwise, your English score will not be considered.
 - Detail of English Competency Standard for Admission:
<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>
7. Two copies of Curriculum Vitae
 8. Two copies of Statement of Purposes and Career Goals
 9. Two copies of Current bank statement / Scholarship letter (if any)
 10. Two copies of Concept paper / research proposal (recommended for all applicants)
 11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

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

- Biosciences educator in any academic institution
- Biosciences researchers in any academic institution in either Thailand or aboard, 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)

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Program Coordinator

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- 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 : gradinter@mahidol.ac.th**