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Doctor of Philosophy Programme in Physiology (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา สรีรวิทยา (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Physiology

คณะวิทยาศาสตร์

ภาควิชา สรีรวิทยา

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

Admission Requirements

A candidate must:

Plan 2

1. Graduate having graduated with a B.Sc. and a grade point average of at least 3.50 good academic performance in Medicine, Dentistry, Veterinary Sciences, Pharmacy, Nursing, Physical Therapy, Medical Technology and Public Health.
2. have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet based score of 61, or IELTS score of 5 .

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.

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

Curriculum Structure

	Credit
Plan 1	
For students with Master's degree in Physiology or Exercise Physiology, Department of Physiology, Faculty of Science, Mahidol University.	
Required Courses	-
Thesis	48

	Credit
Plan 2	
For students with Bachelor's degree	
Required Courses	16
Elective Courses	8
Thesis	48
For students with Master's degree in other field	
Required Courses	16
Elective Courses	8
Thesis	36

			Credit
Plan 1			
For students with Master's degree in Physiology or Exercise Physiology, Department of Physiology, Faculty of Science, Mahidol University.			
Required Courses			
SCPS 606	Physiology Seminar I		1(1-0-2)
SCPS 607	Physiology Seminar II		1(1-0-2)
SCPS 608	Physiology Seminar III		1(1-0-2)
SCPS 639	Laboratory Methods in Physiology		1(0-3-1)
Dissertation			
SCPS 898	Dissertation		48(0-144-0)

			Credit
Plan 2			
Required Courses			
For students with Bachelor's degree			
SCID 516	Biostatistics		3(3-0-6)
SCID 518	Generic Skills in Science Research		1(1-0-2)
SCPS 606	Physiology Seminar I		1(1-0-2)
SCPS 607	Physiology Seminar II		1(1-0-2)
SCPS 608	Physiology Seminar III		1(1-0-2)
SCPS 612	Current Topics in Physiology		3(3-0-6)
SCPS 639	Laboratory Methods in Physiology		1(0-3-1)
SCPS 630	Scientific Paper Analysis		1(0-3-1)
SCPS 631	Systems Physiology		4(3-2-7)
For students with Master's degree in other field			
SCID 516	Biostatistics		3(3-0-6)
SCID 518	Generic Skills in Science Research		1(1-0-2)
SCPS 606	Physiology Seminar I		1(1-0-2)
SCPS 607	Physiology Seminar II		1(1-0-2)
SCPS 608	Physiology Seminar III		1(1-0-2)
SCPS 612	Current Topics in Physiology		3(3-0-6)
SCPS 639	Laboratory Methods in Physiology		1(0-3-1)
SCPS 630	Scientific Paper Analysis		1(0-3-1)
SCPS 631	Systems Physiology		4(3-2-7)
Elective Courses			
SCID 500	Cell and Molecular Biology		3(3-0-6)
SCID 502	Cell Science		2(2-0-4)
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)
SCPM	611	Advanced Pharmacology	3(3-0-6)
SCPS	623	Neurophysiology	2(2-0-4)
Dissertation			
SCPS	699	Dissertation	36(0-108-0)
SCPS	799	Dissertation	48(0-144-0)
* These may change in cases where there are suggestions for the improvement of the curriculum			

Additional advantages of the programme

Signed agreements with leading universities in US, Canada, Germany and Japan for student research training.

Every student receives some kind of scholarship.

Extracurricular activities include participation in workshops, seminars and lectures given by 5-10 visiting scientists a year.

Details of Scholarships

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Scholarships are available for all graduate students.
3. All our PH.D. candidates have opportunity to do research overseas as part of their thesis.

Additional information for applicants

For students with no scholarship or with limited resources, the tuition fees may be reduced on a case by case basis.

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 last semester 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 proof of payment.

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

Academia, researcher and specialist in the field of Physiology in both government and Private sectors.

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

1. **Prof.Dr. Jonggonnee Wattanapermpoon** (E-mail : jonggonnee.wat@mahidol.ac.th)
Room PR 404, Preclinic Building, Floor 4,
Department of Physiology, Faculty of Science.
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2. **Lect.Dr. Witchuda Sangsawang** (E-mail : witchuda.san@mahidol.ac.th)
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Tel. : 0 2201 5613 Fax. : 0 2354 7154

Program Coordinator

Miss Ummara Muang-ngam (E-mail : ummara.mua@mahidol.ac.th)

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Department of Physiology, Faculty of Science.

Tel. : 0 2201 5611 Fax. : 0 2354 7154

Note

1. The programme of Physiology requires students to study the pre - requisite course:
 - SCID 500 Cell and Molecular Biology 3 Credits
2. For more 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**