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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 1

1. Having graduated with a M.Sc. degree and good grade in Physiology or Exercise Physiology from the Department of Physiology, Faculty of Science, Mahidol University.
2. Having graduated from other institutions either with a minimum grade point average of 3.50 or graduated with a first authored-research publication.
3. 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.

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 Program Committee under exceptional circumstances.

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.

3. 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:

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Exemption from the above conditions may be granted by the Program 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.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.			

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.

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.

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

- ผู้เชี่ยวชาญด้านสรีรวิทยาในสถาบันอุดมศึกษาทั้งภาครัฐและเอกชน
- นักวิทยาศาสตร์ นักวิจัย นักวิชาการ ด้านสรีรวิทยาในหน่วยงาน สถาบัน องค์กรทั้งภาครัฐและเอกชน

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

Prof. Dr. Jonggonnee Wattanapermpoon (E-mail : jonggonnee.wat@mahidol.ac.th)
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Program Coordinator

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

- Notes**
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**