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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. 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](http://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.

**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. Submit a certificate of English proficiency with minimum admission score:
  - IELTS - at least 3 or
  - TOEFL INTERNET BASE - 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.
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3. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

## Written Examination

There is NO written examination for this program. Applicants must check their eligibility for interview upon the announcing date of the interview list which is scheduled for each admission round.

## 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)
<b>Dissertation</b>		
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](http://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
- A copy of proof of payment.

**Job option after graduation**

- Physiologist in public/private University for higher education
- Scientist/Researcher/Academic Research in the field of Physiology in public/private sector or organization

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

**Prof. Dr. Jonggonnee Wattanapermpoon (E-mail : [jonggonnee.wat@mahidol.ac.th](mailto:jonggonnee.wat@mahidol.ac.th))**

Room PR 422, Preclinic Building, Floor 4,

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Tel. : 0 2201 5622 Fax. : 0 2354 7154

**Program Coordinator**

**Miss Ummara Muang-ngam**

**(E-mail : [ummara.mua@mahidol.ac.th](mailto:ummara.mua@mahidol.ac.th))**

Room Pr404, Preclinic Building, Floor 4,

Department of Physiology, Faculty of Science.

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**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](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](mailto:gradthai@mahidol.ac.th)**