

Doctor of Philosophy Programme in Physiology (International Programme)

Faculty of Science

Department of Physiology

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

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

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.

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:

- 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)
- Two copies of Degree Certificate (with officially certified English translation)
- Two copies of Academic Transcript (with officially certified English translation)
- Two copies of Recent Photos (Passport size)
- Two copies of Passport
- 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

- Physiology experts in public or private higher education institutions
- Physiology scientists, researchers or academics in public or private institutions

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

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

Room PR 422, Preclinic Building, Floor 4,

Department of Physiology, Faculty of Science.

Tel. : 0 2201 5610 Fax. : 0 2354 7154

Program Coordinator

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

Room Pr404, Preclinic Building, Floor 4,

Department of Physiology, Faculty of Science.

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 : gradiinter@mahidol.ac.th**