

Admission Number

2 0 2 6 M G 0 0

**Master of Philosophy Program in Medical Physiology (International Program)**

หลักสูตร วิทยาศาสตร์มหาบัณฑิต สาขาวิชา สรีรวิทยาการแพทย์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Medicine, Siriraj Hospital

Department of Physiology

คณะแพทยศาสตร์ศิริราชพยาบาล

ภาควิชา สรีรวิทยา

Number of students accepted 20 persons

**Admission Requirements****A candidate must:**

1. have got a Bachelor's degree in Medicine, Dentistry, Veterinary medicine, Pharmacy, Science, or related areas or studies in the last semester of the Bachelor's degree at mention previously.
2. have got a cumulative GPA of at least 2.50 in transcript at graduate time or last semester.
3. have a TOEFL score of at least 480 TOEFL computer-based score of 157, TOEFL Internet-based score of 54 or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.

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 which the above conditions may be granted by the Programme Committee and the Dean of Faculty of Graduate Studies.

**Written Examination**

Test date for section 2	Subjects for examination	Time	Place
March, 17, 2012	1. English	8.30 - 11.30 a.m.	Mahidol University , Salaya , Nakhonpathom more details : <a href="http://www.grad.mahidol.ac.th">www.grad.mahidol.ac.th</a> or Announcement at Faculty of Graduate Studies branches.
	2. General Knowledge	11.30 - 12.30 p.m.	
	3. Biology	1.30 - 4.30 p.m.	
4. Mathematics			
5. Physiology			

**Curriculum Structure**

	credit
Required Courses	18
Elective Courses	6
Thesis	12

	credit
<b>Required Courses</b>	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SIPS 509 Medical Physiology I	3(2-2-5)
SIPS 510 Medical Physiology II	3(2-2-5)
SIPS 514 Seminar and Literature Review	1(1-0-2)
SIPS 520 Scientific Article Analysis	1(1-0-2)
SIPS 522 Principles of Physiological Experimentation	2(2-0-4)
SIPS 523 Advanced Physiology and Pathophysiology	2(2-0-4)

SIPS 524 Professional Skills and Teaching in Physiology	1(1-0-2)
SIRE 502 Research Methodology	2(2-0-4)
<b>Elective Courses</b>	
SIPS 518 Current Topics in Medical Physiology and Biophysics	2(2-0-4)
SIPS 519 Learning Styles and Brain-Based Learning	2(2-0-4)
SIPS 521 Physiological Biochemistry	2(2-0-4)
SIPS 601 Seminar in Medical Physiology I	1(1-0-2)
SIPS 602 Seminar in Medical Physiology II	1(1-0-2)
SIPS 603 Behavioral Neuroscience	2(2-0-4)
SIPS 604 Ion Channel Physiology	2(2-0-4)
SIPS 606 Advanced Respiratory Physiology	2(2-0-4)
SIPS 607 Cellular Pathophysiology	2(2-0-4)
<b>Thesis</b>	
SIPS 698 Thesis	12(0-36-0)
<b>* These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum</b>	

### The researches of this program will emphasize on

1. Applied endocrine physiology and pathophysiology: obesity, exercise, cancer, reproduction and diabetic research
2. Cellular electrophysiology: ion channels, molecular mechanism of exocytosis
3. Computer-aided assessment of cardiovascular autonomic function
4. Endothelial signaling and dysfunction
5. Gastrointestinal motility assessment, gastrointestinal hormones
6. Glomerular filtration rate, renal functional reserve, uroflowmetry
7. Neuroscience research: cerebral hypoperfusion, learning and memory, neuropathic pain and alternative treatment, human-computer interface, ergonomics, learning and instructional design
8. Sleep Physiology: Sleep breathing disorders
9. Animal models of pulmonary emphysema; cell & molecular biology of alveolar development, lung injury, asthma, COPD and bronchopulmonary dysplasia
10. Roles of water channels in medical disease
11. In vitro hippocampal slice recording
12. Obesity and appetite regulation

### Additional advantages of the programme

The program has emphasized on physiological researches which can be applied to medical sciences.

### Details of Scholarships

1. The Siriraj Graduate Scholarships.
2. The Siriraj Graduate Thesis Scholarships.

### Application Process

Application is only available via online application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)

### Required Documents

Prepare the following required documents:

- Four (4) 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
- A copy of proof of payment.

2 copies

The required documents mentioned above can be uploaded to our website (*jpeg, gif, jpg, png, pdf*). All documents must be no larger than 2 MB. You may also submit these required documents by post.

**Job option after graduation**

- Researcher
- Research Orihect Manager

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

1. **Assoc. Prof. Dr. Suwattanee Kooptiwut** (Email : [siskw@mahidol.ac.th](mailto:siskw@mahidol.ac.th))  
Room 101, Juthathut Building, Floor 1,  
Department of Physiology, Faculty of Medicine, Siriraj Hospital  
Tel: 0 2419 9720 Fax: 0 2411 5009
2. **Asst. Panapat Uawithya** (Email : [sipuw@mahidol.ac.th](mailto:sipuw@mahidol.ac.th))  
Room 1107, Juthathut Building, Floor 11,  
Department of Physiology, Faculty of Medicine, Siriraj Hospital  
Tel: 0 2419 7580 Fax: 0 2411 5009

**Note** 1. For more education information : [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)

<p><b>For more information please contact The Student Admission Section. Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129</b></p>
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**ค่าใช้จ่ายในการลงทะเบียนสำหรับ**  
**หลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาวิชาสาธารณสุขการแพทย์ (ภาคปกติ)**  
**คณะแพทยศาสตร์ศิริราชพยาบาล**

รายการค่าธรรมเนียม	อัตรา
1. ค่าบำรุงการศึกษา (ต้องชำระทุกภาคการศึกษาเพื่อคงสภาพนักศึกษา)	
1.1 ภาคการศึกษาแรก	5,050 บาท
1.2 ภาคการศึกษาที่สอง	4,350 บาท
2. ค่าหน่วยกิต (บรรยาย /ปฏิบัติ /สัมมนา)	900 บาท/หน่วยกิต
3. ค่าลงทะเบียนวิทยานิพนธ์	8,400 บาท/ฉบับ
ชำระในภาคการศึกษาแรกของการลงทะเบียนวิทยานิพนธ์	