Doctor of Philosophy Programme in Exercise Science (International Programme)

Faculty of Science
Department of Physiology

Admission Requirements
A candidate must:
1. Hold a Bachelor’ s degree in all fields of Science, and Medical Science such as Physical Therapy, Medical Technology, Nursing, Medicine, Veterinary Medicine/Veterinary Science, Dentistry and Physical Education with GPA no less than 3.25, or
2. Hold a Master’ s degree in all fields of Science or other related fields with GPA no less than 3.25, or
3. Be students in Master program who intend to change the student status to a doctoral student provided that they have already taken and passed course work at the Master’s degree level no less than two third (2/3) of the number of credits in required courses and have received a GPA of no less than 3.50 with approvals from Master program committee and Doctoral program committee as well as the Dean of the Faculty of Graduate Studies.
4. Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5.

Exceptions from the above requirements may be made by the Programme Committee and the Dean of Faculty of Graduate Studies.

Curriculum Structure

<table>
<thead>
<tr>
<th>Plan 2</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>For students with Bachelor's degree</td>
<td></td>
</tr>
<tr>
<td>Required courses</td>
<td>21</td>
</tr>
<tr>
<td>Elective courses at least</td>
<td>3</td>
</tr>
<tr>
<td>Dissertation</td>
<td>48</td>
</tr>
<tr>
<td>For students with Master's degree</td>
<td></td>
</tr>
<tr>
<td>Required courses</td>
<td>8</td>
</tr>
<tr>
<td>Elective courses at least</td>
<td>4</td>
</tr>
<tr>
<td>Dissertation</td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>For students with Bachelor's degree</td>
<td></td>
</tr>
<tr>
<td>GRID 603 Biostatistics</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>SCID 502 Cell Science</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td>SCPS 631 Systems Physiology</td>
<td>4(3-2-7)</td>
</tr>
</tbody>
</table>
SCPS 636 Seminar in Exercise Science I  
SCPS 637 Seminar in Exercise Science II  
SCPS 638 Exercise Genomics  
SCPS 664 Advanced Exercise Physiology  
SCPS 661 Physical Fitness Testing and Exercise Prescription  
SCID 518 Generic Skills in Science Research

For students with Master's degree
SCPS 636 Seminar in Exercise Science I  
SCPS 637 Seminar in Exercise Science II  
SCPS 638 Exercise Genomics  
SCPS 661 Physical Fitness Testing and Exercise Prescription

Elective Courses
SCID 500 Cell and Molecular Biology  
PTPT 625 Sports Biomechanics and Clinical Application  
RANU 601 Nutritional Sciences  
SCID 506 Concepts in Molecular Bioscience  
SCID 511 Gene Technology  
SCID 512 Receptor Binding and Enzyme Kinetic Assays  
SCID 514 Animal Experimentation in Biomedical Research  
SCPS 630 Scientific Paper Analysis  
SCPS 639 Laboratory Methods in Physiology  
SCPS 663 Practicum in Exercise for Health

Dissertation
SCPS 699 Dissertation

* These may change in cases where there are suggestions for the improvement of the curriculum

Additional advantages of the programme

The program has been revised recently (June 2012). Please check the curriculum structure and course lists for details. Furthermore, the program has collaborative agreements with many Faculties and Institutes at Mahidol University as well as overseas. Students have the opportunity to do research work at any of these collaborating institutions. The program emphasizes high quality research on responses to exercise and exercise training from the molecular level to the whole body in human.

Application Process

Application is available all year round. Please contact the program director for further information.

Required Documents

Prepare the following required documents to submit via online admission system or post:

1. 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)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport  
6. 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.  
   
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  
   1. To be an expert in exercises science working in private or government university  
   2. To be an scientist, researcher, and academician in the field of exercises science in private or government organization  

Further information may be obtained from the Director of Graduate Studies, Exercise:  
   1. Assoc. Prof. Vitoon Saengsirisuwon (E-mail : vitoon.sae@mahidol.ac.th)  
      Room B506, Biology Building, Floor 5,  
      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 Exercise Science 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 and www.sc.mahidol.ac.th/scps
   www.exercise.sc.mahidol.ac.th

For more information please contact The Student Admission Section.
Tel. 0 2441 4125 ext. 208-210, 0 2441 9129. E-mail: gradinter@mahidol.ac.th