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Doctor of Philosophy Programme in Biochemistry (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา ชีวเคมี (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Biochemistry

คณะวิทยาศาสตร์

ภาควิชา ชีวเคมี

Expected number of students to be accepted all year round : 5 Students

Admission Requirements

A candidate must:

1. Already obtain a bachelor's degree or currently enroll in the final year of a bachelor's program in any of the following areas: science (all areas), pharmacy, dentistry, veterinary science, or medicine with a minimum GPA of 3.50 or equivalent. Or
2. Already obtain a master's degree or currently enroll in the final year of a master's degree program in any of the following areas: chemistry, life sciences, medical sciences, health sciences, or other related field with a minimum GPA of 3.50 or equivalent.
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 Programme Committee under exceptional circumstances

Written Examination (Applicants must attend the examination date accurately to your admission round.)

<u>First Round</u>	
January 17, 2015	
Subjects for examination	Time
1. English	8.30 - 11.30 a.m.
2. Biology	} 1.30 - 4.30 p.m.
3. Biochemistry	
4. Chemistry	
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 2	
For students with Bachelor's degree	
Required courses	19
Elective courses not less than	5
Dissertation	48

	Credit
Plan 2	
For students with Master's degree	
Required courses	6
Elective courses not less than	6
Dissertation	36

	Credit
Required courses	
For students with Bachelor's degree	
SCBC 609 Structure and Mechanism of Enzymes	2(2-0-4)
SCBC 610 Modern Metabolism	2(2-0-4)
SCBC 611 Current Protocols in Biomolecular Research	1(1-0-2)
SCBC 613 Advanced Skills in Biochemical Research	3(2-2-5)
SCBC 614 Advanced Biochemistry Seminar I	1(1-0-2)
SCBC 615 Advanced Biochemistry Seminar II	1(1-0-2)
SCBC 616 Advanced Biochemistry Seminar III	1(1-0-2)
SCID 502 Cell Science	2(2-0-4)
SCID 506 Concepts of Molecular Bioscience	2(2-0-4)
SCID 508 Biomolecular and Spectroscopy Techniques	1(0-2-1)
SCID 509 Separation Techniques	1(0-2-1)
SCID 511 Gene Technology	1(0-2-1)
SCID 518 Generic Skills in Science Research	1(0-2-1)
For students with Master's degree	
SCBC 613 Advanced Skills in Biochemical Research	3(2-2-5)
SCBC 614 Advanced Biochemistry Seminar I	1(1-0-2)
SCBC 615 Advanced Biochemistry Seminar II	1(1-0-2)
SCBC 616 Advanced Biochemistry Seminar III	1(1-0-2)
Elective Courses	
SCBC 603 Advanced Biochemistry Laboratory	2(0-4-2)
SCBC 607 Current Topics in Biochemistry	3(3-0-6)
SCBC 612 Functional Genetics and Genomics	2(2-0-4)
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 507 Microscopic Technique	1(0-2-1)
SCID 510 Immunological methods	1(0-2-1)
SCID 512 Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)
SCBT 602 Gene Regulation	3(3-0-6)
Dissertation	
SCBC 699 Research	36/48(0-144/192-0)
* These may change in cases where there are suggestions for the improvement of the curriculum	

Additional advantages of the programme

Our department has long been recognized as having a leading programme in Biochemistry and Molecular Biology and is the first department in Thailand to offer graduate degrees in Biochemistry. Based on Thai university ranking for the year 2005 by Thai Commission on Higher Education (CHE), **the department has highest ranked-graduate programme of Biochemistry in the country.** Many of our faculty members have been honored with international, national, and university awards. Research activities are always rigorously pursued and are published in international journals every year. Our alumni are currently key players in various Thai scientific communities and industries.

Details of Scholarships

A variety of scholarships awarded on a competitive basis is available each year for graduate students including:

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Institutional Strengthening scholarships from the Faculty of Science, which include waiver of tuition fees plus monthly allowance in the first year.
3. Royal Golden Jubilee scholarships from Thailand Research Fund.
4. Teaching assistantships to all students to help supervising undergraduate students in the health sciences.
5. Department scholarship for all first-year students who have good academic performances and who do not have any scholarship that covers tuition fees.

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: 2 copies
http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
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

- Scientist, researchers in university or research institute
- Academic staffs in university
- Expert, researcher, analyst in private sectors

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

1. **Asst. Prof. Kittisak Yokthongwattana** (E-mail : kittisak.yok@mahidol.ac.th)

Room B 323, B Building, Floor 3, Department of Biochemistry, Faculty of Science.

Tel. : 0 2201 5462 Fax. : 0 2354 7174

Program Coordinator

Miss Yuvadee Mongkolrop (E-mail : yuvadee.mon@mahidol.ac.th)

Room Pr 306, Pr Building, Floor 3, Department of Biochemistry, Faculty of Science.

Tel. : 0 2201 5600 Fax. : 0 2354 7174

Notes

1. The programme of Biochemistry requires students study the pre - requisite course:
SCID 500 Cell and Molecular Biology 3 Credits
2. Student with B.Sc. GPA \geq 3.5 can take only oral exam. In that case, he/she needs to apply through the Department of Biochemistry. Please contact Dr. Tuangporn Suthiphongchai for more information.
3. For more education information :
<http://www.grad.mahidol.ac.th> or <http://www.sc.mahidol.ac.th/scbc>

**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**