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Doctor of Philosophy Programme in Biology (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชาชีววิทยา (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Biology

คณะวิทยาศาสตร์

ภาควิชา ชีววิทยา

Expected number of students to be accepted all year round : 15 Students

(For Third Round : 10 Students)

Admission Requirements

A candidate must:

1. have completed a bachelor's degree in biology, bioscience or related fields, with a grade point average of least 3.50
2. have completed a master's degree in biology, bioscience or related fields, with a grade point average of least 3.50
3. fulfill the requirements of the Faculty of Graduate Studies;
4. 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.

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>Third Round</u> June 7, 2014	
Subjects for examination	Time
1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.
3. Biology	1.30 - 2.30 p.m.
Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.	

Curriculum Structure

Plan 2	Credit
For students with Bachelor's degree	
Required Courses	14
Elective Courses no less than	10
Thesis	48
For students with Master's degree	
Required Courses	6
Elective Courses no less than	6
Thesis	36

	Credit
Required Courses	
For students with Bachelor's degree	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCBI 631 Research Seminar in Biology I	1(1-0-2)
SCBI 632 Research Seminar in Biology II	1(1-0-2)
SCBI 633 Research Seminar in Biology III	1(1-0-2)
SCBI 634 Research Seminar in Biology IV	1(1-0-2)
SCBI 626 Biology Laboratory Teaching Practice	1(1-0-2)
SCID 502 Cell Science *	2(2-0-4)
SCID 503 Systematic Bioscience *	3(3-0-6)
SCID 505 System Ecology and Disease Emergence *	3(3-0-6)
SCID 506 Concept 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 Assay **	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)
SCID 518 Generic Skills in Science Research	1(0-2-1)
SCBI 582 Current Topics in Biology	2(2-0-4)
* Choose one of these courses to fulfill the requirement	
** Choose one of these courses to fulfill the requirement	

For students with Master's degree

SCBI 633 Research Seminar in Biology III	1(1-0-2)
SCBI 634 Research Seminar in Biology IV	1(1-0-2)
SCBI 626 Biology Laboratory Teaching Practice	1(1-0-2)
SCID 502 Cell Science **	2(2-0-4)
SCID 503 Systematic Bioscience **	3(3-0-6)
SCID 505 System Ecology and Disease Emergence **	3(3-0-6)
SCID 506 Concept 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 Assay ***	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)

* Choose one of these courses to fulfill the requirement 1 (2-3 credit)

** Choose one of these courses to fulfill the requirement 1 (1 credit)

Elective Courses

SCBI 501 Molecular Entomology	3(3-0-6)
SCBI 502 Medical Entomology	3(2-3-5)
SCBI 504 Introduction to Malacology	3(2-3-5)
SCBI 506 Insect Taxonomy	3(2-3-5)
SCBI 508 Cell and Developmental Biology	3(2-3-5)
SCBI 509 Biology of Insects	3(3-0-6)
SCBI 514 Field Studies in Malacology	2(0-6-3)
SCBI 516 Comparative Anatomy of Mollusks	3(2-3-5)
SCBI 530 Conservation Biology	3(3-0-6)
SCBI 532 Basic Principles of Sociobiology	3(3-0-6)
SCBI 539 Techniques in Ecology and Conservation *	2(0-6-3)
SCBI 540 Behavioral Ecology	3(2-3-5)
SCBI 545 Cytogenetics	3(2-3-5)
SCBI 546 Population and Ecological Genetics *	3(3-0-6)
SCBI 572 Molecular Parasitology	3(2-3-5)
SCBI 574 Immunological Parasitology *	3(3-0-6)
SCBI 578 Techniques in Cell and Tissue Culture	2(0-6-3)

SCBI 579 Research Techniques in Biological Science	2(0-6-3)
SCBI 581 Special Problems in Biology	2(0-6-3)
SCBI 607 Evolutionary Genetics	3(3-0-6)
SCBI 609 Molecular Genetics	3(3-0-6)
SCID 516 Biostatistics	3(3-0-6)
Thesis	
SCBI 699 Thesis	36(0-144-0)
SCBI 799 Thesis	48(0-108-0)
These may change in cases where there are suggestions for the improvement of the curriculum	

Additional advantages of the programme

1. All qualified students will obtain scholarship for the first year.
2. The graduates can apply for job in both government and private sectors.

Details of Scholarships

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Royal Golden Jubilee-Ph.D. Program (RGJ) (ทุนกาญจนนาภิเษก(คปก.))
3. Commission on Higher Education (CHE), Ministry of Education (ทุนพัฒนาอาจารย์(สกอ.))
4. Science Achievement scholarship of Thailand (ทุนเรียนดีวิทยาศาสตร์แห่งประเทศไทย๗)
5. Institutional Strengthening Program (ทุนเสริมสร้างนักวิทยาศาสตร์รุ่นใหม่)
6. Teaching Assistantship (ทุนโครงการผู้ช่วยสอน)
7. Teaching Assistantship Development (ทุนพัฒนาผู้ช่วยสอน)

Additional information for applicants

1. Competent students have a good chance to obtain financial support throughout their study.
2. Admission is open all year to qualified students
3. Applicants should be prepared to describe their research interest on the interview day in English

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 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 2 copies
- 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

1. Lecturer in the related fields of science and technology.
2. Researcher in of science and technology.
3. Executive / Strategy Manager in of science and technology.
4. Academic expert in related field at S&T

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

Biology :

1. **Asst. Prof. Dr. Choowong Auesukaree (E-mail : choowong.aue@mahidol.ac.th)**
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Department of Biology , Faculty of Science.
Tel. : 0 2201 5481 Fax. : 0 2354 7161
2. **Asst. Prof. Dr. Theeraporn Puntheeranurak (E-mail : theeraporn.pun@mahidol.ac.th)**
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Program Coordinator

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Note 1.For more education 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 : gradthai@mahidol.ac.th**