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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 : 12 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. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
 - Application without submitting a valid English certificate will NOT be considered.
 - MU English Competence Standards: www.grad.mahidol.ac.th
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies.
Tel. 0-2441-4125 ext. 221-222
5. 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)

Subjects for examination	Time (Morning session)
1. Biology	9.00 - 10.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

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

Required Courses	Credit
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 (ทุนเรียนดีวิทยาศาสตร์แห่งประเทศไทย)
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

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format.

- 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)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)

- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency : IELTS / TOEFL INTERNET BASED / TOEFL ITP
- A copy of proof of payment.

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)**
Room N511, N Building, Floor 5,
Department of Biology , Faculty of Science.
Tel. : 0 2201 5273 Fax. : 0 2354 7161
2. **Assoc. Prof. Dr. Arunee Ahantarig (E-mail : arunee.aha@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**