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**Master of Science Programme in Toxicology (International Programme)**

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชา พิษวิทยา (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Toxicology

คณะวิทยาศาสตร์

ภาควิชา พิษวิทยา

**Expected number of students to be accepted all year round : 20 Students**

**Admission Requirements**

**A candidate must:**

1. The applicants must study in the final year of the curriculum for Bachelor degree or hold a B.Sc. degree in basic science or health science, Pharmacy, Dentistry, Medicine, Veterinary Medicine or equivalent from Institutes approved by the Office of the Higher Education Commission with a minimum GPA of 2.50
2. The applicants must have good knowledge of English including listening, speaking, writing and Communication
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.

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](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.)

<b>First Round</b> January 17, 2015		<b>Second Round</b> May 16, 2015	
<b>Subjects for examination</b>	<b>Time</b>	<b>Subjects for examination</b>	<b>Time</b>
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.
<b>Examination Place</b> 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.			

## Curriculum Structure

	<b>Credit</b>
Required Courses	14
Elective Courses	10
Thesis	12

	<b>Credit</b>
<b>Required Courses</b>	
SCID 502 Cell Science	2(2-0-4)
SCID 503 Systemic Bioscience	3(3-0-6)
SCID 518 Generic Skills in Science Research	1(1-0-2)
SCTX 603 Experimental Methods in Toxicology	1(0-3-1)
SCTX 628 Fundamental of Toxicology	3(3-0-6)
SCTX 629 Systemic Toxicology	2(2-0-4)
SCTX 691 Seminar in Toxicology I	1(1-0-2)
SCTX 692 Seminar in Toxicology II	1(1-0-2)
<b>Elective Courses</b>	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 505 Systematic Ecology and Disease Emergence	3(3-0-6)
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 Assays	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)
SCTX 633 Clinical Toxicology	2(2-0-4)
<b>Thesis</b>	
SCTX 698 Thesis	12(0-36-0)
<b>* These may change in cases where there are suggestions for the improvement of the curriculum</b>	

## **Strength and Special Features of Graduate Program in Toxicology, Faculty of Science, Mahidol University, Bangkok, Thailand**

### **Strength/Strategic Advantages**

#### **Teaching and Learning**

- Taking teaching course across institutes: Mahidol University and Chulabhorn Graduate Institute

#### **Research Collaboration: National and International**

1. Collaborative research activity and supervisors from colleagues within Faculty of Science and other institutes
  - Within Faculty of Science: Pharmacology, Anatomy, Physiology, Pathobiology
  - Between Faculties: Faculty of Science and Faculty of Medicine Ramathibodi Hospital
2. The MOU and collaboration between Faculty of Science and Faculty of Graduate Studies with other Institutes (USA, Australia, Japan, student's own expense or grant, no bench fee) allowing competent students to have to present their research or being trained abroad

### **Details of Scholarship**

1. Scholarship of the 60<sup>th</sup> Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Faculty of Science Teaching Assistantship.
3. Science Achievement Scholarship.
4. Research support for materials for each student.
5. Research Assistantship (Depending on supervisor)
6. Partial support scholarship.

### **Additional Information**

1. All classes in the Program are conducted in English.
2. Each faculty member, either from Faculty of Science or Faculty of Medicine Ramathibodi Hospital, is a leader who involves in research area including impact of chemicals on human health, molecular mechanisms of biological and toxicological actions of chemicals, factors modulating health and environmental impact of chemicals including toxicogenomics.
3. Textbooks to support the research initiatives of graduate students are available.
4. The results of the research activities conducted by the faculty are publicized through international symposia and publications which are higher in number and impact than those of other institutes offering similar graduate programs.

Visit : <http://www.sc.mahidol.ac.th/MDU/>

Select :Toxicology Program

### Special features

1. Graduate education is tightly integrated with a variety of research areas and activities and opportunity to take internationally-recognized research training course with the Inter-University Program;
2. Research facility and small classes conducted by approachable faculty members who are eager to enhance students' graduate education experience;
3. Internationally-recognized faculty members and research output;
4. A partial or full support scholarship (depending on the condition) from Faculty of Science, Mahidol University and the Center for Toxicology, Environmental Health and Management of Toxic Chemicals (ETM);

### 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 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: [http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553\\_th.php](http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php) 2 copies  
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**

- Experts in Toxicology (Toxicologist)
- Scientist, researcher, academic staff in both governmental and private institutes

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

**1. Assoc.Prof.Krongtong Yoovathaworn (E-mail : krongtong.yoo@mahidol.ac.th)**

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Department of Toxicology, Faculty of Science.  
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**2. Asst.Prof.Artthi Chairoungdua (E-mail : artthi.cha@mahidol.ac.th)**

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### **Program Coordinator**

**Asst.Prof.Sunhapas Soodvilai (E-mail : sunhapas.soo@mahidol.ac.th)**

Room B.400, Biology Building, Floor 4,  
Department of Physiology, Faculty of Science.  
Tel: 0 2201 5583

### **Notes**

1. The programme of Toxicology requires students to study the pre - requisite course:
  - SCID 500 Cell and Molecular Biology 3 Credits
  - SCTX 691 Seminar in Toxicology I (Audit)
  - SCTX 692 Seminar in Toxicology II (Audit)
2. For more information : **[www.grad.mahidol.ac.th](http://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](mailto:gradthai@mahidol.ac.th)**