Master of Science Programme in Toxicology (International Programme)
Faculty of Science
Department of Toxicology

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 ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5 or MU GRAD TEST score of 60.

Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Curriculum Structure

<table>
<thead>
<tr>
<th>Credit</th>
<th>Required Courses</th>
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<tbody>
<tr>
<td>14</td>
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<tr>
<td>10</td>
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<tr>
<td>12</td>
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</tbody>
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| 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) |

<table>
<thead>
<tr>
<th>Credit</th>
<th>Elective Courses</th>
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<tbody>
<tr>
<td>3(3-0-6)</td>
<td>Cell and Molecular Biology</td>
</tr>
<tr>
<td>3(3-0-6)</td>
<td>Systematic Ecology and Disease Emergence</td>
</tr>
<tr>
<td>1(0-2-1)</td>
<td>Microscopic Technique</td>
</tr>
<tr>
<td>1(0-2-1)</td>
<td>Biomolecular and Spectroscopy Techniques</td>
</tr>
<tr>
<td>1(0-2-1)</td>
<td>Separation Techniques</td>
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<tr>
<td>1(0-2-1)</td>
<td>Immunological Methods</td>
</tr>
<tr>
<td>1(0-2-1)</td>
<td>Gene Technology</td>
</tr>
<tr>
<td>1(0-2-1)</td>
<td>Receptor Binding and Enzyme Kinetic Assays</td>
</tr>
<tr>
<td>1(0-2-1)</td>
<td>Animal Cell Culture Techniques</td>
</tr>
</tbody>
</table>
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 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Faculty of Science Teaching Assistantship.
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

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

- 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,

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2. Asst.Prof.Artthi Chairoungdua (E-mail: artthi.cha@mahidol.ac.th)
   Room PR.415, PR. Building, Floor 4,
   Department of Physiology, Faculty of Science.
   Tel: 0 2201 5615-9

Program Coordinator

Prof.Skorn Mongkolsuk (E-mail: skorn.mon@mahidol.ac.th)
Room B.400, Biology Building, Floor 4,
Department of Physiology, Faculty of Science.
Tel: 0 2201 5471

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: gradinter@mahidol.ac.th