Master of Science Programme in Environmental Biology (International Programme)

Faculty of Science  Department of Biology

Admission Requirements
A candidate must:
1. have completed a bachelor’s degree in biology or in related fields such as microbiology, bioscience, zoology, botany and environmental science
2. have a grade point average of at least 2.5;
3. fulfill the entry requirements of the Faculty of Graduate Studies.
4. 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>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>13</td>
</tr>
<tr>
<td>Elective Courses</td>
<td>11</td>
</tr>
<tr>
<td>Thesis</td>
<td>12</td>
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</tbody>
</table>

**Required Courses**

- SCBI 603 Research Seminar in Environmental Biology I 1(1-0-2)
- SCBI 604 Research Seminar in Environmental Biology II 1(1-0-2)
- SCBI 619 Environmental Science 3(3-0-6)
- SCBI 621 Environmental Pollution 3(2-3-5)
- SCID 500 Cell and Molecular Biology 3(3-0-6)
- SCID 518 Generic Skills in Science Research 1(1-0-2)
- SCID 507 Microscopic Techniques 1(0-2-1)
- 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)

* Choose one of these courses to fulfill the requirement
### Elective Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCBI 505</td>
<td>Population and Community Ecology</td>
<td>3(2-3-5)</td>
</tr>
<tr>
<td>SCBI 518</td>
<td>Environmental Aquatic Toxicology</td>
<td>3(2-3-5)</td>
</tr>
<tr>
<td>SCBI 524</td>
<td>Environmental Biology and Management</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>SCBI 526</td>
<td>Biological Control of Pests</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>SCBI 577</td>
<td>Host-Microbe Interactions</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>SCBI 611</td>
<td>Research Techniques in Environmental Biology</td>
<td>2(0-6-3)</td>
</tr>
<tr>
<td>SCBI 612</td>
<td>Special Problems in Environmental Biology</td>
<td>2(0-6-3)</td>
</tr>
<tr>
<td>SCBI 613</td>
<td>Current Topics in Environmental Biology</td>
<td>2(2-0-3)</td>
</tr>
<tr>
<td>SCBI 584</td>
<td>Plant Responses to Environmental Stresses</td>
<td>3(3-0-4)</td>
</tr>
<tr>
<td>SCBI 624</td>
<td>Hazardous Waste Management</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>SCBI 625</td>
<td>Bioremediation</td>
<td>3(2-3-5)</td>
</tr>
<tr>
<td>SCID 505</td>
<td>Systematic Ecology and Disease Emergence</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>SCID 516</td>
<td>Biostatistics</td>
<td>3(3-0-6)</td>
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</table>

### Thesis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCBI 698</td>
<td>Thesis</td>
<td>12(0-48-0)</td>
</tr>
</tbody>
</table>

* These may change in cases where there are suggestions for the improvement of the curriculum

### Additional advantages of the programme

1. Several types of Scholarships are available for eligible students.
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)
3. Commission on Higher Education (CHE), Ministry of Education
4. Science Achievement scholarship of Thailand
5. Institutional Strengthening Program
6. Teaching Assistantship
7. Teaching Assistantship Development

### Additional information for applicants

Applicants should be prepared to describe their research interests on the interview day.

### 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**
1. Lecturer
2. Academic
3. Researcher
4. Executive

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

1. **Assoc. Prof. Dr. Prayad Pokethitiyook**  (E-mail: prayad.pok@mahidol.ac.th)
   Room B410/1, N Building, Floor 4, Department of Biology, Faculty of Science.
   Tel. : 0 2201 5479, Fax. : 0 2354 7161

2. **Lect. Metha Meetam**  (E-mail: metha.mee@mahidol.ac.th)
   Room B 404, B Building, Floor 4, Department of Biology, Faculty of Science.
   Tel. : 0 2201 5475 Fax. : 0 2354 7161
Program Coordinator

Mrs. Chomchay Sungmok (E-mail: chomchay.sun@mahidol.ac.th)
Room R413, N Building, Floor 4,
Department of Biology, Faculty of Science.
Tel.: 0 2201 5254 Fax.: 0 2354 7161

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: gradinter@mahidol.ac.th