



**Mahidol University**  
Faculty of Science



# Bioresources & Environmental Biology






## International Program

*Bioresources - Environment - Science - Technology*

### Program Highlight

Bioresources and Environmental Biology (BE) is part of Faculty of Science International B.Sc. Program at Mahidol University (SIM). The BE program is the first and only science undergraduate program in Thailand that students could obtain dual Thai-U.S. Bachelor's degrees from Mahidol University and the State University of New York College of Environmental Science and Forestry (SUNY-ESF) at Syracuse, New York, USA. The BE program integrates various fields of biological sciences such as cell and molecular biology, genetics, plant and animal physiology, ecology, environmental biology, and evolution along with industrial microbiology, renewable energy, environmental management, and bioethics. The program aims to develop and promote skills and capacities for challenges in the 21<sup>st</sup> century as well as building collaborative academic and research activities internationally.

### Study Plans

Plan A	Plan B	
 <b>3.5 years</b> B.Sc. in Bioresources and Environmental Biology	 <b>3 years</b> B.Sc. in Bioresources and Environmental Biology   <b>1 year</b> B.Sc. in Environmental Biology	 <b>2 years</b> B.Sc. in Bioresources and Environmental Biology   <b>2 years</b> B.Sc. in Environmental Biology or Environmental Science or Biotechnology or Environmental Health

### Tuition & Fees

 <b>Thai Student</b> ~75,000 THB/semester <b>Non-Thai Student</b> ~120,000 THB/semester	 <b>Thai Student</b> ~9,450 USD/semester <b>Non-Thai Student</b> ~9,450 USD/semester (Total ~41,476 USD/year including room and board)
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### Study Locations

**Thailand:** Lecture and laboratory classes are mainly held on Salaya Campus in Nakhon Pathom, the main campus of Mahidol University, located in a suburb of Bangkok. Some specialized classes or laboratories can be convened on Phayathai Campus, a home of Faculty of Science, located in central Bangkok.



**United States:** SUNY-ESF is located in the city of Syracuse of Upstate New York. ESF is the premier college focused on the science, design, engineering, and management of natural resources and the environment. Many ESF programs are consistently ranked among the nation's top universities based on value, class size, and student engagement. ESF students can also take classes and use library, computing, and dining facilities of a nearby Syracuse University, a private research university.

## Bioresources & Environmental Biology Topics

Bioremediation and Bioenergy; Phytochemistry and Herbal Uses; Molecular Biology, Cell Biology, and Genetics; Biomedicine, Stem Cell, and Cancer; Microbe, Plant, and Animal Physiology; Systematic Taxonomy, Biodiversity and Conservation; Ecology, Eco-literacy, and Eco-agriculture; Vector Biology and Disease Control

## BE Field Study, Internship, and Exchange Opportunities

Salakphra Wildlife Sanctuary (Kanchanaburi), Khao Yai National Park (Nakhorn Ratchasima), Marine Biology Course (Bangsaen), Cranberry Lake Biological Station (Cranberry Lake, USA), AIMS (Thai Students, ASEAN and U of Tsukuba), NIBB (Sokendi, Japan), MU Backpack (Thai Students, ASEAN), ASEAN University Network Exchange (Thai Students), Macquarie University Exchange (Sydney, Australia), Osaka University Exchange (Osaka, Japan) and many more.

## BE Career Prospects

**Researchers** in government or private academic institutes

**Entrepreneurs** in bio-based products, plant-based cosmetics, or ecotourism industry

**Graduate Degrees** in environmental studies, biological sciences, biomedical sciences, or biotechnology

**Health Professional Degrees** in medicine, dentistry, veterinary science, or pharmacy

**Teaching Career** as teachers or instructors especially for International (IP) or English Program (EP)

**Quality Control and Quality Assurance** in R&D, biotechnology, or pharmaceutical companies

**Environmental Officer Position\*** for government or private employers

\*Graduates from the BE curriculum with a minimum of 3-year work experience are eligible to apply for the Thai Council of Science and Technology Professional (CSTP) license.

## Admission

Eligible applicants must be current students or graduated from Thai Mathayom Suksa 6, Grade 12, Year 13, or its equivalent from Thai school system, international schools in Thailand, or overseas institutes. Optionally, students can submit a copy of English Language Proficiency Test such as IELTS or TOEFL (less than 2 years old) to the admission committee. Selected candidates will be invited for an interview in English by BE admission committee on Salaya Campus.

**\*Updated on Nov 29<sup>th</sup>, 2023**

## FAQs

*Is BE program a part of Mahidol University International College (MUIC)?*

No, it is not. The international BE program is hosted by SIM of Mahidol University Faculty of Science, the Thailand's premier teaching and research Faculty. MUIC is an international liberal arts college within Mahidol University.

*Can I attend medical school after earning B.Sc. from Mahidol/SUNY-ESF?*

Yes, you can. In the U.S., a student must finish an undergraduate degree before attending a medical school. Our dual B.Sc. degree in Environmental Health fulfills **pre-med course requirements** for U.S. medical school application. Additionally, this degree also fulfills requirements for U.S. dentistry, veterinary, or pharmacy schools.

*Can I work in the U.S. after graduating from SUNY-ESF?*

Yes. If you earn a dual B.Sc. degree from SUNY-ESF, you may be awarded by the U.S. Immigration to work up to 12 months in your area of study as F-1 Optional Practical Training (OPT). In addition, the SUNY-ESF BE graduates can request another 24 months extension as STEM degree holders.

## More Information



**SIM Admission:** <https://sim.sc.mahidol.ac.th/admission-timeline/> Tel +66 2 4419820 ext.1199

**BE Website:** <https://sim.sc.mahidol.ac.th/undergraduate-program/bioresources-and-environmental-biology/>

### Email Us:

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**Facebook:** Bioresources and Environmental Biology (SCBE)

2024 Admission*	Dates
<b>Early Direct Admission</b>	Sep 15 – Oct 15, 2023
<b>Regular Direct Admission</b>	
Round 1	Oct 16 '23 - Jan 8 '24
Round 2	Jan 9 - Mar 3, 2024
Round 3	Apr 1 - May, 2024
Round 4	May 16 - May 31, 2024
Round 5	June 1 - June 15, 2024
<b>TCAS System</b>	
TCAS 1/1 - Portfolio	Oct 2 – Oct 16, 2023
TCAS 1/2 - Portfolio	Dec 1 '23 - Jan 8 '24
TCAS 2 - Quota	Mar 20 - Apr 8, 2024
TCAS 3 - Admission	May 6 - May 12, 2024

