

Curriculum Structure

(a) General Education Courses	no less than 30 credits
(b) Specific Study Courses	no less than 102 credits
1. Core Courses	29 credits
1.1 Basic sciences and mathematics	16 credits
1.2 Developing learning skills*	13 credits
2. Major Field of Study Courses	no less than 73 credits
2.1 Core Courses	30 credits
2.2 Required Major Courses (Teaching in English)	34 credits
2.3 Elective Major Courses	no less than 9 credits
(c) Free Elective Courses	no less than 6 credits

Total credits in the program 138 credits

*Training must take no less than 250 hours or cooperative education requires at least 16 weeks

Criteria of Applicants

Prospective students must graduate with high school's degree in sciences or equivalent and must pass the admission process offered by the Ministry of Education.

Admissions

- Direct examination through Srinakharinwirot University (<http://www.cuas.or.th>)
- Entrance examination through the Higher Education Admissions (<http://admission.swu.ac.th>)



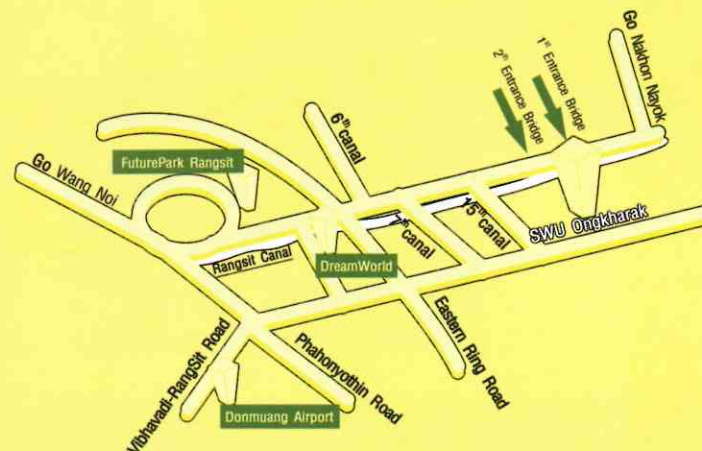
Contact Us

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Bachelor of Science in Biotechnology and Agricultural Products

Bilingual Program (Thai-English)

Faculty of Agricultural Product Innovation and Technology

Srinakharinwirot University



Biotechnology

You may have heard the term "Biotechnology" or sometime, in short, called "Biotech" or "Biot." Do you know the meaning of these terms?

Definition

Biotechnology is originated from the terms "Technology" and "Biology." Combined, biotechnology means utilization of living organisms or products derived from living organisms including DNA technology.

Examples of the Use of Biotechnology in Daily Life

- Development of plant, animal, and microorganism varieties, and products derived from genetically modified organisms (GMOs)
- Plant and animal tissue culture
- Ethanol production for fuels
- Fuel production from algae
- Enzyme production for utilization in various industries
- Wastewater treatment by microorganisms
- Development of test kits using knowledge in biotechnology
- Production controls of fermented food such as wine, beer, vinegar, cheese, yogurt, and pickle
- Production of medicines by genetically modified microorganisms
- Stem cell technology



Financial Aid

- Scholarships by Faculty of Agricultural Product Innovation and Technology
- Scholarships by organization/ company / other agencies
- Students are eligible to apply for Thailand's Student Loans Fund

Q&A

Q: What Types of Careers are Available after Graduation?

A: After graduation in Bachelor of Science Degree, graduates can work in industries, e.g., biofuel productions, environmental controls, quality controls of food and drug productions.

In addition, graduates can work as researchers in a research institute or in a private company working in areas of tissue culture of plants and animals, enzyme productions, medicine productions, and development of plant, animal, and microorganism varieties, and products derived from genetically modified organisms (GMOs), etc. If graduates pursue higher education in Master's and Ph.D.'s degrees, becoming faculty members in a university is also possible.

Q: Is It Difficult? And What Courses are Required to Take?

A: Studying in biotechnology major is somewhat varied but not too difficult to obtain.

To complete the program, bachelor's degree takes 4 years. In the 1st year of the study, required courses are basic sciences and mathematics and general education courses to prepare for advanced studies. In the 2nd, 3rd, and 4th years of the study, required courses include specific classes such as microbiology, microbiology for industry, genetics, biochemistry, bioengineering processes, quality assurance and quality controls, techniques in biotechnology, DNA technology, and special projects, etc.