

**Doctor of Philosophy Program in Food Biotechnology
(International Program)
New program for 2004**

1. Name of the Curriculum

Doctor of Philosophy Program in Food Biotechnology

ปรัชญาดุษฎีบัณฑิตสาขาเทคโนโลยีชีวภาพทางอาหาร

2. Name of Degree:

2.1 Full-Name (Thai): ปรัชญาดุษฎีบัณฑิต (เทคโนโลยีชีวภาพทางอาหาร)

2.2 Abbreviated-Name (Thai) ปร.ด. (เทคโนโลยีชีวภาพทางอาหาร)

2.3 Full Name (English): Doctor of Philosophy (Food Biotechnology)

2.4 Abbreviated-Name (English): Ph.D. (Food Biotechnology)

3. Responsible Units

3.1 Faculty of Biotechnology, Assumption University

3.2 Faculty of Graduate Studies Assumption University

3.3 Department of Food Science and Technology, University of California at Davis

3.4 Department of Biological Agricultural Engineering, University of California at Davis

4. Philosophy and Objectives of the Programme

4.1 Philosophy

Food Biotechnology continues to expand rapidly with new discoveries and often life-saving products at a breathtaking pace. This industry, a merger of science and business demands a multi-disciplinary workforce skilled in research and development, regulations and commercialization. Food Biotechnology professionals draw upon life sciences, computer science, engineering, and business to discover, test, produce, and market new products for the world economy.

This industry harnesses advances in molecular biology, genomics, and proteomics to move discoveries and ideas out of the laboratory and into the product development pipeline. This programme are designed to provide opportunities for the students to learn and advance their careers by broadening their skill base and new knowledge of this dynamic field by intensive, individualized study and research.

4.2 Programme Objectives:

Assumption University is collaborating with University of California at Davis to offer a PhD. Program in Food Biotechnology. This unique Doctor of Philosophy Degree program combines the faculties, the educational and research facilities and the high-tech equipment at the two campuses to create a program on the cutting edge of technology. The program is designed to provide students with marketable skills and qualifications for work in a high-tech industry, as well as the academic foundation.

5. Admission and Selection Procedures

- 5.1 Student must hold a Bachelor's degree or a Master's degree in food science, biotechnology, biological science or related subjects.
- 5.2 Receive a cumulative GPA of at least 3.0 for student holding a Master Degree.
- 5.3 Receive a cumulative GPA of at least 3.5 for student holding a Bachelor Degree.
- 5.4 Pass English Examination with a TOEFL score of more than 500 or equivalent.
- 5.5 Exceptions to the above items may be made by the program committee and the Dean of Faculty of Graduate Studies.

6. Selection Method

Written examination and/or interview. Applicants from foreign countries will be judged based on information in the application forms and the letters of recommendation. Final judgment will be under the consideration of the entrance examination committee of the Faculty of Graduate Studies, Assumption University.

7. Academic system

7.1 Semester system

7.2 Credits

The number of credits assigned to each subject is determined as follows:

- 7.2.1 The lecture of discussion consumes 15 hours per semester is equal to 1 credit hour
- 7.2.2 The laboratory or practice consumes 30 hours per semester is equal to 1 credit hour.
- 7.2.3 Field study consumes 45 hours per semester is equal to 1 credit hour.
- 7.2.4 The thesis consumes 45 hours per semester is equal to 1 credit hour.

8. Language

English is used in the instruction and dissertation writing.

9. Duration of Study

- 9.1 A candidate holding a Bachelor's degree must take no longer than 8 academic years to pursue a Doctoral degree.
- 9.2 A candidate holding a Master's degree must take no longer than 5 academic years to pursue a Doctoral degree.

10. Registration

- 10.1 Students must register as full time students.
- 10.2 Students must register no less than 9 credits but no more than 15 credits per regular semester, or up to the recommendation of the advisors.

11 11. Evaluation and Graduation Requirements

11.1 Evaluation

Student evaluation is in accordance with the rules and regulations of Assumption University.

11.2 Evaluation Graduation Requirements

11.2.1 Students must complete course requirement in accordance with the curriculum structure with GPA not less than 3.00.

11.2.2 Pass Ph.D. comprehensive examination.

11.2.3 Pass Ph.D. qualifying examination.

11.2.4 Complete the thesis research and pass oral thesis examination required for graduation according to regulations of Faculty of Graduate Studies, Assumption University. This examination will be conducted by the student's dissertation committee which shall consist of the student's dissertation advisor, at least two other members and an expert in the field of research.

11.2.5 Have at least one publication or an acceptance to publish in an international research journal.

12 12. Budget

12.1 First year budget

Personnel	600,000	Baht
Books and texts	100,000	Baht
Research facilities	300,000	Baht
Reserved budget	100,000	Baht
Total	1,100,000	Baht

12.2 Second year budget

Personnel	600,000	Baht
Books and texts	100,000	Baht
Research facilities	300,000	Baht
Reserved budget	100,000	Baht
Total	1,100,000	Baht

13 13. Tuition Fees

Credit fee is 7,000 Baht/Credit

14 14. Curriculum Structure

14.1 The student holding a Master must take at least 51 credits degree to pursue a Doctoral degree.

14.1.1 PLAN A

Elective course	6	Credits
Advance elective course	6	Credits
Graduate seminar	3	Credits
Dissertation	36	Credits
Total	51	Credits

14.1.2 PLAN B

Graduate seminar	3	Credits
------------------	---	---------

Dissertation	48	Credits
Total	51	Credits

14.2 The student holding a Bachelor degree must take at least 75 credits degree to pursue a Doctoral degree.

14.2.1 PLAN A

Elective course	18	Credits
Advance elective course	6	Credits
Graduate seminar	3	Credits
Dissertation	48	Credits
Total	75	Credits

14.2.2 PLAN B

Graduate seminar	3	Credits
Dissertation	72	Credits
Total	75	Credits