

Faculty of Agriculture, Department of Applied Biological Chemistry	
Diploma Policy	<p>The Department of Applied Biological Chemistry confers a bachelor's degree (in agriculture) to a student who has acquired the qualities and abilities listed below in accordance with our founding spirit, the Faculty's objective in developing human resources :Our mission is to cultivate human resources who can contribute to society with a broad base of specialized expertise, grounded in the life sciences, food/health sciences, and environmental sciences, and capacities for insight, creativity, and practical action; and the Department's objective in developing human resources :Our mission is to cultivate specialists and leaders who can thrive in a wide variety of roles in industries related to biotechnology, food, pharmaceutical products, cosmetics, health, and health care, education, administration, and other specializations on a local and global scale by utilizing their capacities for logical thinking, practical action, and ethical conduct in relation to the understanding and application of biological phenomena, food functions, and biological control mechanisms from a chemistry-based approach; and earned the Department's required minimum number of credits (124) during the prescribed enrollment period.</p> <p>(1) A strong educational background, language skills, communication abilities, presentation skills, respect for nature and living organisms, high ethical standards, and a rich sense of humanity.</p> <p>(2) The ability to contribute to the realization of a society of health and longevity and an environmentally friendly society by utilizing one's advanced specialized expertise in applied biological chemistry (life science, food science, molecular chemistry and bioregulatory science) and scientific literacy, one's abilities to think logically, design research, analyze information, conduct research, use information technology, and communicate information, and one's correct understanding of biological phenomena and the natural environment at a molecular level.</p> <p>(3) The ability to explore and solve problems in the fields of life science, food science, molecular chemistry and bioregulatory science, a determination to continue learning actively throughout life with an awareness of the importance of scholarship in human life, and the abilities to apply one's knowledge and adapt to changing conditions, making it possible to thrive as a leader, collaborator, and innovator in a variety of fields.</p>
Curriculum Policy	<p>The Department of Applied Biological Chemistry designs its curriculum, comprising Liberal Arts Education and Specialized Education, to accomplish the Department's objective in developing human resources and nurture students with the qualities and abilities stated in the diploma policy. Students are required to earn a certain number of credits in each component of the curriculum, which serves to establish a broad educational background and foundation of basic knowledge that enable students to develop the abilities for thriving in various fields.</p> <p>(1) Liberal Arts Education, which comprises Basic Subjects, Humanities and Social Science Subjects, Natural Science Subjects, Verbal Communication Subjects, Information Technology Subjects, Health and Sports Subjects, and Career Education Subjects, helps students develop a strong educational background, language skills, communication abilities, presentation skills, respect for nature and living organisms, high ethical standards, and a rich sense of humanity.</p> <p>(2) Specialized Education comprises a group of Basic Education Subjects and Specialized Education Subjects, establishing an integrated, systematic framework of subjects that help students progress sequentially from basic knowledge to applied studies. In addition to featuring lecture-based classes on theory and knowledge, the Specialized Education curriculum also includes lab experiments, practice labs, and seminars that further nurture students' abilities to learn independently. The Specialized Education curriculum also focuses on interactive learning across the subject spectrum, forming strong student-instructor connections and fostering a more independent, self-motivated approach to learning.</p> <p>(3) The Department's Specialized Education culminates in the final two years of the curriculum, when students join laboratories (year 3) and then do their Graduation Research under the guidance of their advisors (year 4). Graduation Research also gives each student an opportunity to select a research topic of his or her choice, thereby respecting the individuality of each learner. In addition, the Graduation Research framework requires each student to formulate his or her own research plan by gathering a broad range of information through discussions with instructors and fellow students. After conducting experiments and analyses, students must then compile their findings and give a Graduation Research presentation at the end of the academic year. The Graduation Research process, a multi-stage sequence of academic inquiry, allows students to develop the abilities to explore issues, create solutions to problems, put their knowledge into practice, express themselves, develop their ethical perspectives, and collaborate with others.</p> <p>(4) In order to ensure that the policy functions effectively and both improves and enriches the quality of student learning, the Department sets a maximum number of credits that a student can register for in a given academic year and also enforces minimum credit requirements for progressing to years 3 and 4 in the curriculum. The Department also releases syllabuses for the courses offered, including class plans, learning objectives, and grading standards. In addition, the Department requires each student to create and analyze portfolios and learning outcomes in accordance with the diploma policy, a process that facilitates self-learning, and uses the GPA system (an international set of standards for evaluating academic performance) for the purpose of academic guidance by advisors.</p>
Admission Policy	<p>The Department of Applied Biological Chemistry admits applicants who understand the Department's objective in developing human resources and have acquired the following abilities and attitudes through prior education such as high school education.</p> <p>(1) A basic knowledge of chemistry, biology, physics, mathematics, Japanese, English, and other fields, which form the basis for studying in the Department, and the ability to apply that knowledge.</p> <p>(2) A strong interest in engaging and ambition to engage in studies of genetic engineering, biotechnology, food safety/security/quality, food and health, investigations into/synthesis of/molecular mechanisms of activity expressions of useful bioactive substances, and the development of methods for conducting physical property analyses and evaluations of biosubstances and food substances, etc.</p> <p>(3) A drive to explore problems, the ability to learn actively, continuously, and cooperatively, and an ambition to continue learning throughout life.</p>