Appended Form 1

Specifications for Major Program

		Program name (Japanese)	1
	Food Science Program	(English)	Food Science Program
1		1 Degree to be obtained: Bach	elor of Agriculture
2		 Biology Program, Animal Scie Program), the aim is to enable social sciences related to appli knowledge regarding biotic reso gain experience in field sci foreign languages such as Engli In the Food Science Progra subjects (biomolecular physical bioresource chemistry, and foo safety evaluation of foods and f functional materials derived fr materials, effects on living orga useful materials. Through this pi application, while being exposed From the perspective descril knowledge and technologies rel and the function analysis and e creation of a rich and healthy die The students who graduate fr specialists with an international business fields related to foods Diploma policy (policy for a The Food Science Program ain 	ish and in data processing. m, education is provided to study chemistry, food engineering, food od chemistry). Studies are underta food materials, the development of om aquatic and terrestrial organ anisms and the environment, and rogram, students are enabled to stu

al Science (Integrated Ecoscience Program, Fisheries rogram, and Applied Molecular and Cellular Biology of knowledge and wisdom in the realms of natural and de education that allows students to acquire basic chnology, and protection of the biological environment; and engineering ethics; and obtain capabilities in

lents by faculty members engaged in six educational microbiology and hygiene, molecular nutrition, marine aken in various areas regarding the functionality and f new food processing technology, research into useful nisms, the identification of the action mechanism of the use and development of biological resources as udy food science from the fundamentals to the practical

provide general education regarding the fundamental ufacture of safe foods with high quality and functionality, der to develop professionals who can contribute to the

go on to graduate school, or to become researchers and ch as the public office for agriculture and fisheries, or in lucts.

program)

egarding the fundamental knowledge and technologies high quality and functionality, and the function analysis

 Techniques for producing foods from bioresources, and the ability to converting these into safe and highly functional food; and Comprehensive understanding of various processes, from foodstuff system, in order to be able to discuss methods for effective use of biore student is also required to become sapable of applying the knowledge of applying the know
student is also required to become capable of applying the knowledge, s integrated manner, in order to solve problems that he/she identifies, to l and to discuss these with others.
4 Curriculum policy (policy for arranging and executing education cour
To enable students to achieve the targets that are set for the Food sorganized and implemented according to the following policies: 1. Liberal arts education courses aim to impart wide-ranging and in-defoster deep humanity with a desire for peace. They also aim to definiternational perspective, the ability to understand different cultures communication. In addition to this, courses in basic subjects are integ develop the basic scientific knowledge and skills required for applicate biological science. 2. Specialized education courses develop the basic capabilities relatered fundamental subjects that are common to all programs in courses include overseas exercises, internships, fieldwork, and lectures order to develop the imagination and practical basic capabilities required for applicate the functional and/or local community. The courses also aim to develop research misconduct, and the importance of research and engineering ether the functionality and safety of foods and food materials, biomolecular phy in order to enable students to acquire the ability to systematically and basics to their application. Also, the courses in "exercises" and "expression" to this, students develop general capabilities for problem
presentation, and practical foreign language abilities, while preparing thei 4. The achievement in education is evaluated based on the grade sco against the target set for this program.
 5 Start time and acceptance conditions
The School of Applied Biological Science holds the entrance examin Biological Science. In the first and second semesters of the first year and mainly take the liberal arts subjects that are common to the whole unive peace, package subjects, foreign languages, data processing, area subj Assignment of students to the Applied Molecular and Cellular Biology P the second year. Students study the basic subjects for one year after entering the univ required for studying the specialized fields. They then mainly study the sp of the School of Applied Biological Science in the second semester of subjects Laboratory Work in General Chemistry, Laboratory Work in Ge Biology I & II (including computer exercises), since these relate to expe School of Applied Biological Science, and consist of receiving the basic procedures that is commonly required for the students of the School of <i>A</i> of the second year, students acquire a wide-ranging education, abilit processing skills, the basic knowledge common to students of the S understanding of bioethics and engineering ethics, in order to allow the each major program and select the most appropriate program. The School of Applied Biological Science comprises five courses, i.e. 1 Biology Course, the Animal Science Course, the Food Science Course, Course, and each of these provides an educational program under the sa Ecoscience Program, the Fisheries Biology Program. The student is allocate wishes and level of achievement, according to the "course allocation m takes the program with the name of the course to which he/she is allocate (Course allocation method) Students who are to be allocated to the courses in a given year are allocat of faculty members, excluding specially appointed faculty members, for e after a decimal point are rounded up. Number of faculty members (as of April 1, 2017): Integrated Ecoscience Course (12), Fisheries Biology Course (15), Ani (12), and Applied Molecular and Cellular Biology Course (10) The student must meet the specified "requirements for allocation to

29.4.1

bility to comprehensively discuss practical methods for

odstuff production to food processing, as an integrated of bioresources as safe and highly functional food. The edge, skills, and attitude that he/she has obtained in an es, to logically present conclusions orally or in writing,

on courses)

Food Science Program, the educational courses are

nd in-depth education and general intelligence, and to to develop practical foreign language abilities, an cultures, and the ability to utilize information and e integrated into the liberal arts education in order to application in any of the specialized fields of applied

s related to organisms and the biosphere through the ams in the School of Applied Biological Science. The ectures regarding ethics in science and engineering, in es required for working in a leading position in the develop the ability to understand problems regarding ering ethics.

vide the "specialized subjects" related to such topics as lar physical chemistry, and food processing technology, ly and hierarchically understand food science from its d "experimentation and practice" in related areas are to practically apply and make use of their results. In roblem solving, including skills for communication, ng their "graduation thesis."

ade scores for the subjects and the achievement level

examination together with the Department of Applied ear and the first semester of the second year, students le university (educational seminars, subjects related to ea subjects, and subjects related to health and sports). plogy Program is conducted in the second semester of

he university, in order to acquire the basic knowledge y the specialized basic subjects common to all students ester of the second year. In particular, they take the x in General Physics, and Laboratory Work in General to experimentation, are common to all students of the e basic training in in a wide range of experimentation ool of Applied Biological Science. By the first semester n, ability in foreign languages such as English, data f the School of Applied Biological Science, and an low them to understand the aim and characteristics of

es, i.e. the Integrated Ecoscience Course, the Fisheries course, and the Applied Molecular and Cellular Biology r the same name as its course name, i.e. the Integrated Science Program, the Food Science Program, and the allocated to one of the five courses based on his/her ation method" described below. The allocated student allocated as his/her major program.

e allocated to each course proportionally to the number s, for each course. In making these calculations, digits

5), Animal Science Course (15), Food Science Course

n to the course" in order to be allocated to the course.

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								8. Acade
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			S=4 A=3	D_9 C_1				The evaluation the evaluation
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Study achievementEvaluation
standardAchExcellent3.00 - 4.00S (Excellent)Very Good2.00 - 2.99A (Very)Good1.00 - 1.99C (Pas)

^t Refer to the relationship between evaluation items and evaluation criteria described in Attachment 2. ^t Refer to the relationship between evaluation items and class subjects described in Attachment 3. ^t Refer to the curriculum map in Attachment 4.

9. Graduation thesis (graduation research) (meaning, student allocation, timing, etc.)
 o Purpose

In graduation research, students conduct experiments in their selected area of study, while directly observing the research activities being conducted by faculty members, in order to organize the basic knowledge food science that they have acquired up to the first semester of the third year. They are required to acquire the ability to identify new phenomena, and to solve problems from a scientific perspective, while studying their topics, in order to become engineers and/or researchers in food science who have creativity, an international outlook, and the skills in applied development necessary for working in the production, functional analysis, and effective use of bioresources, based on an international and interdisciplinary outlook.

Students are allocated to one of six laboratories to conduct their graduate research on the topic that they have been given by their mentor. In their graduation research, students learn the concepts and ethics fundamentally required for research activities, establish a plan for the research, study the methods needed for the research and experiments, and carry out their research under the instruction of their mentor. Furthermore, students review the results obtained in the research and identify targets for further research. Students experience a series of research processes in person, and have the chance to observe cutting-edge research activities. An interim debriefing session is held in each laboratory, and students compile their results in their graduation thesis by the specified date. Also, students present the results of their research in the graduation thesis presentation assembly that is held for whole the program.

In the process of graduation research, students learn the abilities and skills described above. Student allocation method and timing

1. Students are allocated to a laboratory in the second semester of the third year.

2. Students are allocated to a laboratory under the guidance of the tutor in charge, according to the allocation method stipulated for the food science course.

Since the contents of the graduation research vary by laboratory, students are instructed to choose a laboratory to which they are to be allocated at a guidance seminar. The tutor holds a guidance seminar for students in their second year to explain the specialties of faculty members. The tutor also instructs students to attend the presentation assembly for graduation theses and master's theses, in order to understand the details of the research undertaken by each faculty member. A session is held in the first semester of the third year to allow faculty members to explain to students the details

hievement evaluation	Numerical
	conversion
cellent: 90 or more points)	4
y good: 80 - 89 points)	3
od: 70 - 79 points)	2
ssed: 60 - 69 points)	1

		graduation thesis and the situation in the laboratory. The upper and lower limits for the number of students allocated food science course meeting after the tutor in charge discusses
		wishes and discuss with one another to determine the laboratory to
		allocation is approved in the course meeting. In some cases, the tu each laboratory.
		10. Responsibility
(pl an)	(do) (check) (action)	(1) Responsibility for PDCA (plan, do, check, and act) cycle
plan (do)		1. The education affairs committee of school and the faculty mer
		"plan" and "do" processes.
		2. Each course has responsibility for planning and executing its
(check)		as the supervisor of the course.
(CHECK)		3. The education affairs committee of the school exercises cont
		4. The education affairs committee of the school consists of five chairman who is chosen by the school.
		5. The education reform promotion committee is engaged in the
(action)		6. The education reform promotion committee consists of five m chairman who is chosen by the school, the chairman of the e
		assistant chief of the graduate course.
		7. The education reform promotion committee reviews and eval
(plan) (do)	(check) (action)	reports the results to the education affairs committee of the s recommendations.
)		8. The course committee that takes the responsibility for execut
		act."
		9. The course committee and the education affairs committee of
		improvement taking into consideration the report, advice, an
		education reform promotion committee after the "check" proc
		The course committee, the education affairs committee of the
		committee cooperate with one another to execute their roles with re-
		in order to improve the education provided by the school.
		(2) Evaluation of program
		(a) Viewpoint for evaluation of program
		The program is evaluated from the viewpoints of "educationa
		The "educational effectiveness" is evaluated by the effect of t
		achievement of students.
		The "social effectiveness" is evaluated by the effect of education (b) Evaluation method
		Achievement in this program is evaluated from the perspectives
		of the fourth year.
		For "educational effectiveness", the results and achievements o
		comprehensively by the group of faculty members who are engage
		achievement of all the students is evaluated and reviewed.
		"Social effectiveness" is evaluated based on such things as the
		connection with the contents of this program, and the pass rate in
		member of human resources staff from a company that mainly
		program. In addition to this, we request graduates of this progra
		program. The staff working in companies and other graduates are whether the class subjects and their contents in this program had
		contents of the classes appropriately corresponded to changes in
		class subject that may be required in the future.
		(c) Policy and method for feedback to students
		The education reform promotion committee regularly conducts

ed to each laboratory and/or faculty are determined in a s it with each faculty member. Students express their to which each student is to be allocated, and then the tutor adjusts the number of students to be allocated to

embers who provide the lectures are engaged in the

s major program. A chief faculty member is designated

trol over the major programs provided by the school. we members who are elected from each course, and a

e process of "check."

members who are elected from each course, a education affairs committee of the school, and an

aluates the major programs provided in each course, school and the courses, and provides advice and

tion of the major program is engaged in the process of

of the school prepare and execute a plan for nd recommendations that are provided by the pcess.

ne school, and the education reform promotion esponsibility in the "plan", "do", "check", and "act"cycle

al effectiveness" and "social effectiveness." the implementation of the program on the educational

ional achievement in the program on society.

s described above for students in the second semester

of the students who took the program are evaluated ged in the execution of the program. Also, the level of

rate of employment in corporations that have a close n public servant examinations. We regularly request a employs students from this program to evaluate the am to evaluate their own achievement and that of the e requested to provide evaluation and advice regarding d a positive effect on their social activities, whether the n science, technology, and society, and any additional

s surveys and interviews for students to review and rovide advice and recommendations for improvement.