SPECIAL THREE-YEAR DOCTORAL PROGRAM for INTERNATIONAL STUDENTS in TROPICAL and SUBTROPICAL AGRICULTURE and RELATED SCIENCES 2017/2020

For Privately-Funded Students

The United Graduate School of Agricultural Sciences
Ehime University

The United Graduate School of Agricultural Sciences, Ehime University

Admission Policy

Agricultural science brings together a broad range of academic disciplines covering biology, chemistry, physics, engineering, economics and biotechnology to improve the efficiency and productivity of biological processes. To achieve these agricultural objectives, it is necessary to adopt an interdisciplinary perspective and build a balanced, sustainable relationship between nature and society. It is equally important to develop and train people to deepen their understanding of biological functions by applying broad knowledge and a flexible mindset unconstrained by conventional academic thinking. They will explore agriculture of the future that goes beyond a simple regional focus and seeks to preserve the global environment. Based on these principles, The United Graduate School of Agricultural Sciences, Ehime University (a consortium of the graduate schools of agriculture at Ehime and Kagawa Universities, and Agricultural Science, Graduate School of Integrated Arts and Sciences, Kochi University) established a three-year doctoral program offering three majors: Bioresource Production Science, Applied Bioresource Science and Life Environment Conservation Science. These majors accept students with master's degrees from universities in Japan. There are also two courses for outstanding international students to pursue research in specific countries and regions.

Agriculture is an academic field rich in future potential and vital for environmental and ecological conservation and improvement for sustaining a healthy life. We welcome applicants who are motivated to lead and explore the many possibilities of agricultural science from diverse perspectives. The Special Program for International Students in Tropical and Subtropical Agriculture and Related Sciences is aimed at research and education in the various sciences related to the production and use of biological resources and the environment that supports such activities in the tropics and subtropics. Centered on such regions, this program accepts outstanding mid-level scientists engaged in research or teaching in all parts of the world and aspires to train scientists and engineers who can positively contribute to their home countries.

The Special Doctoral Course Program in Agricultural Sciences for Students from Asia, Africa and the Pacific Rim (AAP) is a unified master's course and doctoral program. The doctoral program accepts students from countries in Asia, Africa and the Pacific Rim who have completed the master's component of this program at the graduate school in Ehime university, Kagawa university or Kochi University and has the goal of training advanced researchers and engineers.

THE THREE-YEAR SPECIAL PROGRAM FOR INTERNATIONAL STUDENTS IN TROPICAL AND SUBTROPICAL AGRICULTURE AND RELATED SCIENCES

The United Graduate School of Agricultural Sciences, Ehime University (UGAS-EU) is a consortium of the graduate schools of agriculture at Ehime and Kagawa Universities, and Agricultural Science, Graduate School of Integrated Arts and Sciences, Kochi University, on the island of Shikoku, Japan. We consider it necessary that students of agricultural sciences widen their scope and deepen their discipline. Accordingly, to fill the growing need for environmental studies as well as resource studies in the tropics, UGAS-EU established in 1990 a special program for international students in the field of tropical and subtropical agriculture and related sciences. Applications are now being accepted for the October 2017/September 2020 program in accordance with the UGAS-EU admission policy.

Application Guidelines for Privately-Funded Students

1. Field of Study, Number Accepted and Supervisor

(1) Field of Study

Applications for any field in tropical and subtropical agriculture and related sciences are accepted.

(2) Number Accepted

Six students will be accepted. They will be notified by the end of May 2017.

(3) Supervisor

An application will not be considered if your choice of supervisor is not included. Before applying you must consult with your preferred supervisor about your research topic. Please refer to the list provided in this booklet ("**Field of Instruction and Supervising Professors**"). After admission, two co-supervisors (selected from "**Co-Supervising Professors**") are assigned to each candidate. The degree of Doctor of Agriculture or Doctor of Philosophy will be conferred on those who satisfactorily complete all the requirements.

2. Qualifications

(1) Eligibility

Those living abroad who wish to pursue graduate study and are engaged in education, research or technology in a university, institute or enterprise.

(2) Nationality

Any nationality approved by the Japanese Government

(3) Age

There is no age restriction as long as the academic requirements are fulfilled.

(4) Academic Career

Applicants should possess a master's or equivalent degree as at September 30, 2017. If the applicant does not have a master's degree but feels he or she has done the work, it is possible to submit the work to UGAS-EU for review. Those who have not possessed a master's degree must be reviewed preliminary, so he or she should contact the Dean's office of UGAS-EU by January 27, 2017. If the applicant's research work is deemed acceptable, the application will be considered. Admission may be canceled if a successful applicant does not hold a master's or equivalent degree by the end of September 2017.

(5) Language

a. The applicant is required to read and write English.

b. The applicant is encouraged to learn some Japanese because it will be necessary for everyday life. If it is not possible to study Japanese before coming, classes are offered at all three universities.

(6) Arrival in Japan Successful applicants should be able to arrive in Japan between September 20 and October 3, 2017. Successful applicants affiliated with Ehime University or Kagawa University should attend an orientation session (includes Japanese language instruction) which will be held in late September for the students affiliated with Ehime University and in early October for the students affiliated with Kagawa University.

3. Application

All the documents listed below should be sent to the Dean of UGAS-EU through the head of the institution with which the applicant is affiliated. All documents should be sent by registered mail and must arrive at the Dean's office by March 31, 2017. (Any application received after March 31, 2017 will not be accepted.) Applications sent directly by an applicant will not be accepted. Incomplete documents or documents arriving at UGAS-EU after the deadline will not be accepted.

a. Application form for UGAS-EU (use enclosed form*: *APPLICATION FOR PRIVATELY-FUNDED STUDENTS, SPECIAL PROGRAM FOR INTERNATIONAL STUDENTS IN TROPICAL AND SUBTROPICAL AGRICULTURE AND RELATED SCIENCES (THREE-YEAR DOCTORAL COURSE) 2017/2020*)

*Detach and use the form from this application booklet.

b. Field of study and study program (use enclosed form: *Field of Study and Study Program*)

Note: This document should be word-processed. Please contact rendai@stu.ehime-u.ac.jp to get the file.

c. Official proof of the applicant's master's degree or a certificate issued by the applicant's graduate school indicating that the applicant is expected to receive a master's degree

d. Official proof of the applicant's undergraduate degree

e. Official transcripts of the applicant's academic records for both the graduate and undergraduate grades

f. A document issued by the last educational institution attended indicating the applicant's academic record, including GPA or class standing, i.e. within the top 5% of the class

g. Certificate of citizenship issued by a government authority

In principle, the original of the Certificate should be submitted.

If an applicant cannot submit the original, a certified copy should be submitted.

h. Four passport-sized photographs (4.5 × 3.5 cm) (showing the head and top of shoulders with face and shoulders square on; no hat) taken within six months of the application date with the applicant's name and nationality written on the reverse side

One photograph should be attached to the application form, and the other three should be enclosed therein.

i. List of publications (master's thesis, books and academic papers)

Note: Attach enclosed form *List of Publications*

This list should be word-processed. Please contact rendai@stu.ehime-u.ac.jp to get the file.

j. One copy of the master's thesis or an equivalent paper (An English abstract is required if the original is not in English.) If the master's thesis is very long, a summary (2-3 A4pages) is acceptable. Those who have not yet received a master's degree should send a report (in English) of their current research project.

k. All reprints (copies are acceptable) of books and academic papers listed in *List of Publications* for part **a** (and **i**), except the master's thesis, must be submitted.

Note: An English abstract is required if the original is not in English.

l. One copy of the official results of a TOEFL, TOEIC, IELTS or other internationally recognized English language proficiency test that you have achieved in the past two years

m. A detailed proposal in English or Japanese for the research the applicant hopes to pursue in this program (More detailed than that required for part **b** above.) The study plan must be related to the applicant's recent research. The proposal should be word-processed.

n. A letter of recommendation written by the head of the applicant's current affiliated institution or enterprise addressed to the President of Ehime University (use enclosed form*: *Letter of Recommendation (1)*)

*Detach and use the form from this application booklet.

o. A letter of recommendation written to the Dean of UGAS-EU by a person senior to the applicant at the applicant's affiliated institution or enterprise who knows the applicant's research and study capabilities and be able to be assigned as a cooperative advisor with UGAS-EU during the applicant's period of study (use enclosed form*: *Letter of Recommendation (2)*)

*Detach and use the form from this application booklet.

p. Record of contact with the prospective supervisor (use enclosed form*: *Record of Contact with the Prospective Supervisor*) in which the applicant has written his/her choice of supervisor and what contact has been made

*Detach and use the form from this application booklet.

q. 30,000 yen for the application fee

r. Check list for Privately-Funded applicants (use enclosed form*: *CHECK LIST FOR PRIVATELY-FUNDED APPLICANTS*) The applicant should check all the many requirements for application documents using the enclosed check list. We recommend checking off the check box for each completed requirement. Once all the required documents have been prepared, submit them along with the completed check list.

*Detach and use the form from this application booklet.

Notes

- Documents **a**, **n**, **o**, **p**, **r** should be prepared in typed or neatly handwritten in English or Japanese using the forms provided. (Please detach and use the forms from this application booklet.) Please contact rendai@stu.ehime-u.ac.jp for an application booklet.
- If any document for submission is written in a language other than Japanese or English, English transration should be submitted. English translations should be provided by the issuing institution or authority. If the issuing institution or authority is not able to provide a translation, applicants should have the document(s) translated and have them certified by the issuing institution or authority. Both the English translation and the original document(s) should be submitted.
- Incomplete documents or documents arriving at UGAS-EU after the deadline will not be accepted.
- Documents for which a prescribed form is not provided should be prepared on A4 paper (29.5 × 21 cm).
- None of the submitted documents will be returned to the applicant.
- If paying the 30,000 yen application fee from abroad, please pay in yen via a bank transfer. The bank account information will be sent when needed.

4. Interview Examination

Applicants must take an interview-style examination given by the prospective supervisor and at least two other faculty members (selected by the prospective supervisor). The interview may be conducted in person or via the Internet (e-mail or Skype). Applicants must prepare (a) a summary of their master's thesis and (b) a research proposal, and submit them to the prospective supervisor then to other interviewers by the day of the interview. The prospective supervisor organizes this process and will write a recommendation for a successful applicant based on the results of the interview and the applicant's academic record. The applicant will be judged on the following:

(1) The content of the master's thesis or equivalent work
(2) Proposal for research if admitted to UGAS-EU including any relationship to present research at applicant's institution
(3) Knowledge of the applicant's major field of study
(4) Motivation and suitability for this program
(5) Proficiency in English

5. Registration Fees

(1) Registration fee

282,000 yen

(2) Tuition fee for 6 months

267,900 yen (one year: 535,800 yen)

* If there is a change in the tuition fee during the course of study, the student is expected to pay the new fee.

(3) Candidates are required to pay 3,620 yen for Student Education/Research Accident and Injury Insurance (coverage for three years, subject to change).

(4) Medical insurance

Candidates are required to take out "National Health Insurance" (Japan), which covers most medical costs up to 70%.

6. Notes

Applicants must file complete, accurate and authentic documents for application; otherwise, an application may be rejected.

7. Personal Information

The information provided in the application, such as name, address and other personal matters, will be used only by the UGAS-EU office for the purpose of processing the applications and notifying the accepted applicants.

All correspondence relating to the application should be sent by air mail to the address below (fax and e-mail can be used for inquiry):

Dean's Office
The United Graduate School of Agricultural Sciences,
Ehime University
3-5-7 Tarumi, Matsuyama, Ehime 790-8566
Japan Fax: 81-89-943-5242 (81 is the international code for Japan)
E-mail: rendai@stu.ehime-u.ac.jp

Fields of Instruction and Supervising Professors

EH : Ehime University
KG : Kagawa University
KC : Kochi University

1 Bioresource Production Science Major

Bioresourse Production Science Department

a Plant Resource Production

Professor (Affiliation)	Research Field	Main Subject
Sakae AGARIE (KG)	Plant Production Physiology	Physiological and molecular biological analysis on plant functions and utilization of plant resources
Takuya ARAKI (EH)	Crop Science	Ecophysiological studies on dry matter production and yield of crops
Tomoaki ICHIE (KC)	Tree Ecophysiology	Resource allocation strategies for growth, reproduction and herbivore defense of forest trees
Hideto UENO (EH)	Soil Science and Plant Nutrition	Dynamics of soil nutrients, agroecological soil managements for sustainable plant production
Tsuneo OGATA (KC)	Pomology and Citriculture	Chemical growth regulation in fruit trees
Kappei KOBAYASHI (EH)	Plant Molecular Biology and Virology	Molecular biology of plant viruses, plant-virus interactions and plant pathogenesis
Kazuhiko SHIMASAKI (KC)	Floricultural Science	Growth control and tissue culture of ornamental plants
Masanori TOYOTA (KG)	Crop Ecophysiology	Ecophysiology and morphology on yield determination of crops
Kenji BEPPU (KG)	Pomology	Reproductive physiology of fruit trees
Akira MIYAZAKI (KC)	Crop Physiology	Physiology and function related with yield production in field crops
Masayuki MURAI (KC)	Genetics and Breeding in Rice	Studies on effects of genes concerning yield, culm length, heading time and cool tolerance in rice
Ryosuke MOCHIOKA (KG)	Pomology	Horticultural utilization of fruit resources

b Plant and Animal Production under Structure

Toshio KAWANO (KC)	Post-harvest Process Engineering	Processing, handling and distribution technology for agricultural products
Yasushi SUZUKI (KC)	Forest Engineering	Logging cable system, Forest operation system, Forest road, Effects of forest operation to residual stands, Woody biomass
Hiroshi NONAMI (EH)	Plant Biophysics/Biochemistry	Mass spectrometry, systems biology and biophysics/biochemistry research in plant cells under environmental stress conditions
Kenji HATOU (EH)	Information Systems for Plant Factory	Research of the various models for the speaking plant approach in a plant factory

Makito MORI (KC)	Applied Meteorology	Climatological studies on agricultural ecosystems
Yozo YAMADA (EH)	Forest Ergonomics	Working Safety, environmental ethics, working skill, labor productivity, education and training

c Aquaculture and Livestock Production

Kou IKEJIMA (KC)	Coastal and Fisheries Ecology	Ecology and Conservation of coastal ecosystems and fisheries resources
Masayuki IMAJOH (KC)	Fish Pathology	Studies on epidemiology and prevention of fish diseases caused by viruses, bacteria and parasites
Keisuke EDASHIGE (KC)	Applied Cryobiology	Cryobiological property of gametes and embryos Development of cryopreservation methods for gametes and embryos
Shingo SEKI (KC)	Fish Genetics and Breeding Science	Fish genetics and breeding science Conservation genetics in fish
Motohiro TAKAGI (EH)	Fish Breeding and Conservation Genetics	Studies on fish breeding and conservation genetics
Tetsuya TACHIBANA (EH)	Poultry Nutritional Physiology	Studies on the bioactive molecules related to growth and behavior of chickens
Haruhisa FUKADA (KC)	Fish Nutrient Physiology	Studies on hormonal regulation of growth and digestion in fish
Toshiro MASUMOTO (KC)	Fish Physiology and Biochemistry	Studies on bioavailability and physiological roles of nutrients in Fish
Takahiro MATSUBARA (EH)	Fish Reproductive Physiology and Aquaculture	Studies on molecular mechanisms of oocyte development and maturation, and evaluation of gamete quality The results are applied for seed production in fish aquaculture and stock enhancement
Takeshi MIURA (EH)	Fish Reproductive Physiology	Studies of the molecular control mechanisms of gametogenesis in animals, and establishment of the applied techniques in aquaculture based on the basic studies

d Bioresourse Economics

Masahiro ICHIKAWA (KC)	Rural Resource Management	Studies on resource uses, livelihood, society and culture in rural areas in Japan and Asia
Akira NAKAYASU (EH)	Agricultural Marketing	Demand and supply structure of food and marketing
HU Bai (EH)	Agricultural Economics and Farm Management	Farm household economy, agricultural and rural development, production and marketing of organic farm products

2 **Applied Bioresource Science Major**

Applied Bioresource Science Department

a Food Science

Hiroyuki UKEDA (KC)	Food Chemistry	Analysis, function and effective utilization of food

Masahiro OGAWA (KG)	Food Protein Chemistry	Structure-function analysis of food proteins and their functional development
Takehiro KASHIWAGI (KC)	Food Functional Chemistry	Chemicalbiology of food material Isolation and identification of functional substance in food
Osamu KAWAMURA (KG)	Food Hygiene	Development and application of immunological methods for mycotoxins, and toxicicolgy and human exposure of mycotoxins
Taro KISHIDA (EH)	Nutrition	Studies on nutritional and physiological effects of food components, especially non-nutrient
Shoichi GOHTANI (KG)	Food Physics	Rheological properties and texture of foods, and preparation of nano-emulsions for food system
Tomoko SHIMAMURA (KC)	Food Chemistry	Studies on reaction of food components, food functionality, and food analysis
Goro TAKATA (KG)	Applied Enzymology	Production of Rare Sugar from bio-resources using microbial and enzymatic reactions
Hirotoshi TAMURA (KG)	Food Chemistry	Molecular nutrition and flavor chemistry of Food ingredients
Katsuji MORIOKA (KC)	Fisheries Chemistry	Studies on post‐harvest science and technology of fish and fisheries products Studies on more efficient utilization of fish
Kenji MORIMOTO (KG)	Applied Enzymology	Production of various rare sugars using microbial and enzymatic reactions
Hidefumi YOSHII (KG)	Food Engineering	Investigation of formation of functional food powder by spray drying, kneading method, and molecular encapsulation with chemical reaction engineering

b Bioresource Science for Manufacturing

Mitsuru AKITA (EH)	Applied Molecular Cell Biology	Protein transport and metabolite transport in plant organelles
Koichi AKIYAMA (EH)	Fungal Genetic Engineering	Functional analysis of the genes from yeast or fungi
Makoto ASHIUCHI (KC)	Bioengineering and Nanotechnology	Development of Multi-functional bionanomaterials and Their Applications
Hideaki ICHIURA (KC)	Material Chemistry of Forest Resources	Material Chemistry for utilization of forest resources
Kazuya ICHIMURA (KG)	Plant Stress Signaling	Biotic and abiotic stress signal transduction in plants
Kazutaka ITOH (EH)	Forest Chemistry	Chemistry for utilization of forest resources
Kouhei OHNISHI (KC)	Microbiology and Molecular Genetics	Molecular analysis of virulence factor secretion systems in plant and animal pathogenic bacteria
Takeshi KATAYAMA (KG)	Wood Biomass Chemistry and Tree Biochemistry	Organic chemistry, biosynthesis, and bioactivity of wood components, and woody biomass utilization
Hisashi KATO (KG)	Plant Biochemistry	Allelopathy and plant biochemistry

Yasuhiro KAWANAMI (KG)	Functional Molecular Chemistry	Organic chemistry of biofunctional molecules
Chul-Sa KIM (KC)	Chemical Ecology	Isolation and determination of semiochemicals between organisms
Masashi SATO (KG)	Bioactive Natural Products Chemistry	Bio-organic chemistry of natural bioactive substances
Takuya SUGAHARA (EH)	Animal Cell Technology	Screening and application of biofunctional substances from foodstuffs
Takayuki SEKITO (EH)	Genetic engineering of microorganisms	Molecular mechanism and regulation of intracellular transport
Naotaka TANAKA (KG)	Cell Biology	Functional analysis of the Golgi apparatus and its application to protein production
Mitsuaki TABUCHI (KG)	Applied Molecular Cell Biology	Studies on the regulation of vesicle trafficking and lipid metabolism in yeast and mammalian cells
Shinichi TEBAYASHI (KC)	Bioactive Chemistry	Organic chemical studies on bioactive chemicals from natural occurring: eg. isolation and identification of medical agents from folklore medical plants screening for pesticidal agents form natural occurring
Shinji NAGATA (KC)	Microbial Fermentation	Application of microbial function
Hisashi NISHIWAKI (EH)	Bioorganic Chemistry	Structure-activity relationship and mode of action of bioactive substances
Mika NOMURA (KG)	Molecular Plant Nutrition	Physiology and molecular biology in plant-microbe interaction
Kazuhiro FUKADA (KG)	Biophysical Chemistry	Physical chemistry on biological amphiphile, monosaccharide, and colloidal materials
Masayuki FUJITA (KG)	Plant Stress Responses	Biochemistry and molecular biology on stress responses and tolerances of higher plants
Satoshi YAMAUCHI (EH)	Chemistry and Utilization of Bioresoueces	Synthetic Organic Chemistry for research about function and effective utilization of bioresources

3 **Life Environment Conservation Science Major**

Life Environment Conservation Science Department

a Land Conservation and Irrigation Engineering

Hiroki OUE (EH)	Hydrometeorology for Environmental Science	Micrometeorology of the plant canopy under changing environment, hydrological processes in forest and farmland watersheds, irrigation and drainage and integrated agricultural water use management
Noriyuki KOBAYASHI (EH)	Geotechnical and Geoenvironmental Engineering	Application of rehabilitation engineering for Hydraulic Structures
Katsuo SASAHARA (KC)	Erosion and Sediment Control Landslide Engineering	Sediment and Water discharge from mountainous slope, Early warning system against landslide Mechanism of deformation of unsaturated soil
Shushi SATO (KC)	Water Use and Environmental Engineering	The overall engineering research for achieving the management of water environment and infrastructure in river basin

Hao ZHANG (KC)	Hydraulics and Sediment Transport	Research on water/sediment related disasters and environment problems
Tadashi HARA (KC)	Geotechnical and earthquake proof engineering	Study on liquefaction characteristics of soft ground
Shinsuke HARUTA (EH)	Rural Resources Management for Environmental Preservation	Improvement and Management of Water Quality and Resources in Rural Area
Taku FUJIWARA (KC)	Water Environmental Engineering	Analysis of water pollution mechanism and development of wastewater treatment technology

b Environmental Science

Kazuya AKIMITSU (KG)	Molecular Plant Pathology	Molecular biology of plant microbe interactions
Masao ADACHI (KC)	Aquatic Environmental Science	Biology, physiology and ecology of harmful algal blooms
Hiroshi ISHIBASHI (EH)	Ecotoxicology/Molecular toxicology	Studies on ecotoxicological effects of environmental contaminants in animals Studies on disruption mechanism of nuclear receptor signaling pathway by environmental contaminants
Kazuhiko ICHIMI (KG)	Coastal Marine Science	Biological and Chemical Processes in Coastal Ecosystems
Fuminori ITO (KG)	Insect Ecology	Behavior and ecology of social insects
Kozo IWASAKI (KC)	Plant Nutrition	Plant nutritional physiology and nutrient dynamics in rhizosphere soils
Akinori KIBA (KC)	Phytopathlogy	Analysis of plant immunity and disease development
Kazuhiko KONISHI (EH)	Insect taxonomy	Taxonomy of hymenopterous parasitoids based on morphological characters
Satoru SUZUKI (EH)	Marine Molecular Ecology	Organic matter decomposition and antibiotic resistance in aquatic microbes
Shin TAKAHASHI (EH)	Environmental Analytical Chemistry Environmental Chemistry, Ecotoxicology, Resources Recycling Engineering	Studies on development of analytical methods, elucidation of emission sources and environmental behaviors, and assessment of ecological effects for persistent bioaccumulative and toxic substances
Ichiro TAKEUCHI (EH)	Ecosystem Conservation / Marine Ecology	Studies on structure, mechanism and conservation methods of shallow water ecosystem, with special reference to species diversity of amphipod crustaceans
Yasufumi HIKICHI (KC)	Plant Pathology	Analysis on pathogenicity mechanisms of plant pathogens and responses of host plants
Naoto MATSUE (EH)	Soil Science	Chemical structure and surface chemical reactions of soil constituents
Haruo YAMAGUCHI (KC)	Aquatic microbial physiology and ecology	Physiology and ecology of microalgae including harmful species
Hiroyuki YOSHITOMI (EH)	Entomology	Systematics and taxonomy of Insects conservation of biodiversity

Co-Supervising Professors

EH : Ehime University
KG : Kagawa University
KC : Kochi University

1 **Bioresource Production Science Major**

Bioresourse Production Science Department

a Plant Resource Production

Professor (Affiliation)	Research Field	Main Subject
Sakae AGARIE (KG)	Plant Production Physiology	Physiological and molecular biological analysis on plant functions and utilization of plant resources
Takuya ARAKI (EH)	Crop Science	Ecophysiological studies on dry matter production and yield of crops
Tomoaki ICHIE (KC)	Tree Ecophysiology	Resource allocation strategies for growth, reproduction and herbivore defense of forest trees
Hideto UENO (EH)	Soil Science and Plant Nutrition	Dynamics of soil nutrients, agroecological soil managements for sustainable plant production
Tsuneo OGATA (KC)	Pomology and Citriculture	Chemical growth regulation in fruit trees
Nobuyuki OKUDA (KG)	Vegetable Horticulture	Development regulation of vegetable crops and raising of superior strain
Ikuo KATAOKA (KG)	Pomology	Utilization and improvement of fruit tree resources
Keiko KATAOKA (EH)	Vegetable Horticulture	Developmental physiology and production technique in vegetable plants
Koichi KAMIYA (EH)	Forest Genetics	Molecular evolution and population genetics of forest trees and related organisms
Yusuke KOSUGI (KG)	Postharvest Horticulture	Physiological and molecular aspects of postharvest changes in ornamentals and vegetables
Kappei KOBAYASHI (EH)	Plant Molecular Biology and Virology	Molecular biology of plant viruses, plant-virus interactions and plant pathogenesis
Kazuhiko SHIMASAKI (KC)	Floricultural Science	Growth control and tissue culture of ornamental plants
Tetsuya SHIMAMURA (EH)	Forest Ecology	Plant species coexistence and organic matter dynamics in forest ecosystems
Hayato TSUZUKI (EH)	Forest Mensuration	Assessment of material and environmental resources of forest
Masanori TOYOTA (KG)	Crop Ecophysiology	Ecophysiology and morphology on yield determination of crops
Yasuyo NISHIMURA (KC)	Vegetable Crop Science	Developmental and nutritional physiology, production technique in vegetable
Ikuo NINOMIYA (EH)	Forest Resources Biology	Structure and function of forests, tree ecophysiology, and conservation, rehabilitation and reclamation of forest ecosystems
Kenji BEPPU (KG)	Pomology	Reproductive physiology of fruit trees
Akira MIYAZAKI (KC)	Crop Physiology	Physiology and function related with yield production in field crops
Masayuki MURAI (KC)	Genetics and Breeding in Rice	Studies on effects of genes concerning yield, culm length, heading time and cool tolerance in rice

Ryosuke MOCHIOKA (KG)	Pomology	Horticultural utilization of fruit resources
Masahiro MOROKUMA (KG)	Crop Husbandry	Improvement of crop productivity by cultivation practices
Tomohiro YANAGI (KG)	Vegetable Crop Science	Flowering physiology and development of production technique in strawberry plants
Hisashi YAMADA (EH)	Pomology	Eco-physiological studies on fruit trees

b Plant and Animal Production under Structure

Seiichi ARIMA (EH)	Agrocultural Machinery and Mechatoronics	Development of agricultural machinery and robot for intelligent bioproduction system
Katsumi ISHIKAWA (KC)	Biological and Environmental System	Plant information and environment in closed eco-systems
Toshio KAWANO (KC)	Post-harvest Process Engineering	Processing, handling and distribution technology for agricultural products
Jun'ichi GOTOU (KC)	Forest Engineering	Sustainable forest utilization and environmental protection
Yasushi SUZUKI (KC)	Forest Engineering	Logging cable system, Forest operation system, Forest road, Effects of forest operation to residual stands, Woody biomass
Takejiro TAKAMURA (KG)	Horticultural Plant Breeding	Utilization and genetic improvement of horticultural plant resources Genetic imprivement and environmental control for flower color expression
Kotaro TAKAYAMA (EH)	Measurement engineering for plant diagnosis	Measurement techniques, imaging and volatile organic compound measurement, and data analyzing methods for plant diagnosis
Takako NARUMI (KG)	Floricultural Science	Study on physiology of ornamental plants
Hiroshige NISHINA (EH)	Environment Control in Biology	Environment control in greenhouse and amenity effect of plants on human being
Hiroshi NONAMI (EH)	Plant Biophysics/Biochemistry	Mass spectrometry, systems biology and biophysics/biochemistry research in plant cells under environmental stress conditions
Kenji HATOU (EH)	Information Systems for Plant Factory	Research of the various models for the speaking plant approach in a plant factory
Makito MORI (KC)	Applied Meteorology	Climatological studies on agricultural ecosystems
Tetsuo MORIMOTO (EH)	Environment and Plant Control Engineering	Optimal control of environmental factors for qualitative improvement of plant
Yozo YAMADA (EH)	Forest Ergonomics	Working Safety, environmental ethics, working skill, labor productivity, education and training

c Aquaculture and Livestock Production

Kou IKEJIMA (KC)	Coastal and Fisheries Ecology	Ecology and conservation of coastal ecosystems and fisheries resources
Masayuki IMAJOH (KC)	Fish Pathology	Studies on epidemiology and prevention of fish diseases caused by viruses, bacteria and parasites

Keisuke EDASHIGE (KC)	Applied Cryobiology	Cryobiological property of gametes and embryos Development of cryopreservation methods for gametes and embryos
Rie GOTO (EH)	Reproductive Physiology and Developmental Biotechnology of Fish	Studies on the mechanism of fish gametogenesis and its application to aquaculture
Shingo SEKI (KC)	Fish Genetics and Breeding Science	Fish genetics and breeding science Conservation genetics in fish
Motohiro TAKAGI (EH)	Fish Breeding and Conservation Genetics	Studies on fish breeding and conservation genetics
Tetsuya TACHIBANA (EH)	Poultry Nutritional Physiology	Studies on the bioactive molecules related to growth and behavior of chickens
Haruhisa FUKADA (KC)	Fish Nutrient Physiology	Studies on hormonal regulation of growth and digestion in fish
Toshiro MASUMOTO (KC)	Fish Physiology and Biochemistry	Studies on bioavailability and physiological roles of nutrients in Fish
Takahiro MATSUBARA (EH)	Fish Reproductive Physiology and Aquaculture	Studies on molecular mechanisms of oocyte development and maturation, and evaluation of gamete quality The results are applied for seed production in fish aquaculture and stock enhancement
Yoshiki MATSUMOTO (KG)	Animal Anatomy and Physiology	Focus on the safe animal feed, nutrition, preventing disease and best animal welfare of the poultry farm, using morphometric aspects in the digestive organ.
Takeshi MIURA (EH)	Fish Reproductive Physiology	Studies on molecular control mechanisms of gametogenesis in animals, and establishment of the applied techniques in aquaculture based on the basic studies

d Bioresourse Economics

Masahiro ICHIKAWA (KC)	Rural Resource Management	Studies on resource uses, livelihood, society and culture in rural areas in Japan and Asia
Toshitaka KATSUKI (EH)	Agricultural Structure	Studies on Japan's agricultural structure and structural changes
Hiroshi KAMEYAMA (KG)	Rural Management	Sustainable community based resource management, human resource development, PtoP project and the LEWIE methodology, food policy
Akira NAKAYASU (EH)	Agricultural Marketing	Demand and supply structure of food and marketing
HU Bai (EH)	Agricultural Economics and Farm Management	Farm household economy, agricultural and rural development, production and marketing of organic farm products
Yasushi FURUKAWA (KC)	Forest Economics	Economical study about forest, forestry and agroforestry
Kazuya MASUDA (KC)	Socio-Cultural Transformation of Rural Area	Studies on the social structure, culture, and resource use among rural community in Japan and Southeast Asia
Atsushi MATSUOKA (EH)	Resources and Environmental Management	Economical studies on management and preservation of agricultural land

Yukio MUTO (KG)	Agricultural Policy, Farm Management, Resource and Environmental Economics	Impacts of Agricultural Protection Policies in Japan, Management Strategies of Japanese farmers, Tools for Water Resource Management

2 **Applied Bioresource Science Major**

Applied Bioresource Science Department

a Food Science

Yasuhiko ASADA (KG)	Applied Microbiology	Biochemistry and molecular biology of basidiomycetes (mushrooms)
Shunnosuke ABE (EH)	Physiology and Molecular Biology	Studies on Cytomics-Dynamic aspects of cellular structures, gene expression, and biotechnology
Hiroyuki UKEDA (KC)	Food Chemistry	Analysis, function and effective utilization of food
Masahiro OGAWA (KG)	Food Protein Chemistry	Structure-function analysis of food proteins and their functional development
Takehiro KASHIWAGI (KC)	Food Functional Chemistry	Chemicalbiology of food material Isolation and identification of functional substance in food
Osamu KAWAMURA (KG)	Food Hygiene	Development and application of immunological methods for mycotoxins, and toxicicolgy and human exposure of mycotoxins
Taro KISHIDA (EH)	Nutrition	Studies on nutritional and physiological effects of food components, especially non-nutrient
Shoichi GOHTANI (KG)	Food Physics	Rheological properties and texture of foods, and preparation of nano-emulsions for food system
Tomoko SHIMAMURA (KC)	Food Chemistry	Studies on reaction of food components, food functionality, and food analysis
Goro TAKATA (KG)	Applied Enzymology	Production of Rare Sugar from bio-resources using microbial and enzymatic reactions
Hirotoshi TAMURA (KG)	Food Chemistry	Molecular nutrition and flavor chemistry of Food ingredients
Katsuji MORIOKA (KC)	Fisheries Chemistry	Studies on post‐harvest science and technology of fish and fisheries products Studies on more efficient utilization of fish
Kenji MORIMOTO (KG)	Applied Enzymology	Production of various rare sugars using microbial and enzymatic reactions
Hidefumi YOSHII (KG)	Food Engineering	Investigation of formation of functional food powder by spray drying, kneading method, and molecular encapsulation with chemical reaction engineering
Lina YONEKURA (KG)	Food Chemistry	Bioavailability, metabolism and function of bioactive compounds
Akira WATANABE (KG)	Microbial Biochemistry	Studies on biological characteristics of basidiomycetous mushrooms

b Bioresource Science for Manufacturing

Mitsuru AKITA (EH)	Applied Molecular Cell Biology	Protein transport and metabolite transport in plant organelles
Koichi AKIYAMA (EH)	Fungal Genetic Engineering	Functional analysis of the genes from yeast or fungi
Makoto ASHIUCHI (KC)	Bioengineering and Nanotechnology	Development of Multi-functional bionanomaterials and Their Applications
Yoshitaka ANO (EH)	Microbial Biotechnology	Biological chemistry and molecular biology of microbial functions and its application
Hideaki ICHIURA (KC)	Material Chemistry of Forest Resources	Material Chemistry for utilization of forest resources
Kazuya ICHIMURA (KG)	Plant Stress Signaling	Biotic and abiotic stress signal transduction in plants
Kazutaka ITOH (EH)	Forest Chemistry	Chemistry for utilization of forest resources
Yusuke EDASHIGE (EH)	Biomass Conversion	Utilization of Biomass Energy Chemical Utilization of Plant Polysaccharides
Yoshito OHTANI (KC)	Forest Resource Utilization	Science of forest resources and their utilization
Kouhei OHNISHI (KC)	Microbiology and Molecular Genetics	Molecular analysis of virulence factor secretion systems in plant and animal pathogenic bacteria
Takeshi KATAYAMA (KG)	Wood Biomass Chemistry and Tree Biochemistry	Organic chemistry, biosynthesis, and bioactivity of wood components, and woody biomass utilization
Shin-ichiro KATO (KC)	Microbial Genetic Engineering	Development and utilization of undiscovered genes
Hisashi KATO (KG)	Plant Biochemistry	Allelopathy and plant biochemistry
Yasuhiro KAWANAMI (KG)	Functional Molecular Chemistry	Organic chemistry of biofunctional molecules
Chul-Sa KIM (KC)	Chemical Ecology	Isolation and determination of semiochemicals between organisms
Yoshio KIMURA (KG)	Physiology of Microorganisms	Studies on environmental adaptation in bacteria
Masaharu KYO (KG)	Plant Cell Physiology	Physiological and molecular biological studies on adventitious embryogenesis
Haruhiko SAKURABA (KG)	Enzyme Engineering	Structure-function analysis of enzymes from extremophiles and development of their application
Masashi SATO (KG)	Bioactive Natural Products Chemistry	Bio-organic chemistry of natural bioactive substances
Noriyuki SUEYOSHI (KG)	Molecular and Cellular Biology	Signal transduction mediated by protein phosphorylation and dephosphorylation
Takuya SUGAHARA (EH)	Animal Cell Technology	Screening and application of biofunctional substances from foodstuffs
Hiroyuki SUGIMOTO (EH)	Physics of Wood and Engineered wood	Development of the novel wood and wood based materials
Masatoshi SUGIMORI (EH)	Wood Science and Technology	Wood Quality
Toshisada SUZUKI (KG)	Biomass Chemistry	Organic chemistry and bioactivity of wood components, and woody biomass utilization

Takayuki SEKITO (EH)	Genetic engineering of microorganisms	Molecular mechanism and regulation of intracellular transport
Naotaka TANAKA (KG)	Cell Biology	Functional analysis of the Golgi apparatus and its application to protein production
Mitsuaki TABUCHI (KG)	Applied Molecular Cell Biology	Studies on the regulation of vesicle trafficking and lipid metabolism in yeast and mammalian cells
Shinichi TEBAYASHI (KC)	Bioactive Chemistry	Organic chemical studies on bioactive chemicals from natural occurring: eg. isolation and identification of medical agents from folklore medical plants screening for pesticidal agents form natural occurring
Shinji NAGATA (KC)	Microbial Fermentation	Application of microbial function
Kosuke NISHI (EH)	Functional Biochemistry	Biochemistry of functional biomolecules in mammals and plants
Hisashi NISHIWAKI (EH)	Bioorganic Chemistry	Structure-activity relationship and mode of action of bioactive substances
Mika NOMURA (KG)	Molecular Plant Nutrition	Physiology and molecular biology in plant-microbe interaction
Kazuhiro FUKADA (KG)	Biophysical Chemistry	Physical chemistry on biological amphiphiles, monosaccharide, and colloidal materials
Masayuki FUJITA (KG)	Plant Stress Responses	Biochemistry and molecular biology on stress responses and tolerances of higher plants
Toshio FURUMOTO (KG)	Plant Functional Chemistry	Bioorganic chemistry on natural products and their biosynthesis in plants
Hisashi MURAMATSU (KC)	Applied Enzymology	Analysis and Application of Microbial Enzyme
Ryo C. YANAGITA (KG)	Bioorganic chemistry	Development of analogues of natural products and analysis of their mechanisms of action
Satoshi YAMAUCHI (EH)	Chemistry and Utilization of Bioresoueces	Synthetic Organic Chemistry for research about function and effective utilization of bioresources
Taisuke WAKAMATSU (KC)	Biochemistry	Screening, functional and structural analysis, and application of novel useful proteins

3 **Life Environment Conservation Science Major**

Life Environment Conservation Science Department

a Land Conservation and Irrigation Engineering

Hiroki OUE (EH)	Hydrometeorology for Environmental Science	Micrometeorology of the plant canopy under changing environment, hydrological processes in forest and farmland watersheds, irrigation and drainage and integrated agricultural water use management
Noriyuki KOBAYASHI (EH)	Geotechnical and Geoenvironmental Engineering	Application of rehabilitation engineering for Hydraulic Structures
Katsuo SASAHARA (KC)	Erosion and Sediment Control, Landslide Engineering	Sediment and Water discharge from mountainous slope, Early warning system against landside Mechanism of deformotion of unsaturated soil
Shushi SATO (KC)	Water Use and Environmental Engineering	The overall engineering research for achieving the management of water environment and infrastructure in river basin

Emi TAKEYAMA (EH)	Rural Landscape Planning	Planning and designing methodology of buffer zone between human and wildlife
Hao ZHANG (KC)	Hydraulics and Sediment Transport	Research on water/sediment related disasters and environment problems
Tadashi HARA (KC)	Geotechnical and earthquake proof engineering	Study on liquefaction characteristics of soft ground
Shinsuke HARUTA (EH)	Rural Resources Management for Environmental Preservation	Improvement and Management of Water Quality and Resources in Rural Area
Taku FUJIWARA (KC)	Water environmental engineering	Analysis of water pollution mechanism and development of wastewater treatment technology
Shinsuke MATSUMOTO (KC)	Environmental Facility Engineering	Development of construction material and structural analysis of agricultural facility

b Environmental Science

Kazuya AKIMITSU (KG)	Molecular Plant Pathology	Molecular biology of plant microbe interactions
Masao ADACHI (KC)	Aquatic Environmental Science	Biology, physiology and ecology of harmful algal blooms
Ryo ARAKAWA (KC)	Applied Entomology	Biological control of insect pests by insect natural enemies
Hiroshi ISHIBASHI (EH)	Ecotoxicology/Molecular toxicology	Studies on ecotoxicological effects of environmental contaminants in animals Studies on disruption mechanism of nuclear receptor signaling pathway by environmental contaminants
Kazuhiko ICHIMI (KG)	Coastal Marine Science	Biological and Chemical Processes in Coastal Ecosystems
Katsura ITO (KC)	Insect Ecology	Ecology of insects and mites
Fuminori ITO (KG)	Insect Ecology	Behavior and ecology of social insects
Kozo IWASAKI (KC)	Plant Nutrition	Plant nutritional physiology and nutrient dynamics in rhizosphere soils
Daisei UENO (KC)	Plant Physiology	Studies on mechanism of plant metal homeostasis
Ayato KAWASHIMA (EH)	Environmental Science for Industry	Development of effective utilization technology for biomass and treatment technology for hazardous pollutants
Yumei KANG (KC)	Soil Environmental Science	Rehabilitation of contaminated soil, water and grassland ecosystem
Akinori KIBA (KC)	Phytopathlogy	Analysis of plant immunity and disease development
Kazuhiko KONISHI (EH)	Insect taxonomy	Taxonomy of hymenopterous parasitoids based on morphological characters
Tsuyoshi KOBAYASHI (KG)	Plant Ecology/Ecophysiology, Environmental Sciences	Terrestrial plant ecology (ecophysiology of higher plants, plant population dynamics and community structure, biodiversity and matter cycling in the ecosystems)
Kenji GOMI (KG)	Plant Pathology	Signal transduction on plant-microbe interaction
Hikaru SAJI (EH)	Environmental Adaptation of Plants	Responses of plants to ozone and other environmental factors / Environmental effects of genetically modified plants

Satoru SUZUKI (EH)	Marine Molecular Ecology	Organic matter decomposition and antibiotic resistance in aquatic microbes
Shin TAKAHASHI (EH)	Environmental Analytical Chemistry Environmental Chemistry Ecotoxicology Resources Recycling Engineering	Studies on development of analytical methods, elucidation of emission sources and environmental behaviors, and assessment of ecological effects for persistent bioaccumulative and toxic substances
Ichiro TAKEUCHI (EH)	Ecosystem Conservation Marine Ecology	Studies on structure, mechanism and conservation methods of shallow water ecosystem, with special reference to species diversity of amphipod crustaceans
Ayu TOYOTA (KG)	Soil Ecology	The role of soil invertebrate animals in ecosystem functioning
Yasufumi HIKICHI (KC)	Plant Pathology	Analysis on pathogenicity mechanisms of plant pathogens and responses of host plants
Naoto MATSUE (EH)	Soil Science	Chemical structure and surface chemical reactions of soil constituents
Shinji MATSUMURA (KG)	Agricultural Disaster Science	Studies on natural disaster in agricultural area
Takashi YAENO (EH)	Plant Pathology	Molecular Plant-Microbe interactions
Naoto YAMAOKA (EH)	Plant Pathology	Plant-microbe interaction and morphogenesis of pathogenic fungi
Haruo YAMAGUCHI (KC)	Aquatic microbial physiology and ecology	Physiology and ecology of microalgae including harmful species
Hitomi YAMAGUCHI (KG)	Coastal Biogeochemical Oceanography	Material cycling and energy flow in coastal ecosystems
Hiroyuki YOSHITOMI (EH)	Entomology	Systematics and taxonomy of Insects conservation of biodiversity

Outline of The United Graduate School of Agricultural Sciences, Ehime University

Educational Principles

The United Graduate School of Agricultural Sciences, Ehime University is a consortium linking the strengths of the graduate schools of agriculture at Ehime and Kagawa Universities, and Agricultural Science, Graduate School of Integrated Arts and Sciences, Kochi University with the aim of producing exceptional people who will be leaders in their field in the 21st century. Our educational goal is to instill a high standard of scholarship, skills and judgement based on a deep understanding of people, society and nature.

Through farsighted, original research, we hope to train talented, world-class researchers who will play a central role in the regional development of their countries and we are actively recruiting talented students from all over the world. In this way we hope to develop a sustainable society and contribute to world peace and harmony between people and the natural environment.

Description

1. Bioresource Production Science

Agricultural and livestock industries have developed through utilizing the complicated geographical features on Shikoku Island. The industries cover a wide range of the horticultural production of vegetables and ornamental plants in open fields as well as under structure, the production of citrus fruits, fisheries in the inland sea or along the seashore, forestry and animal husbandry. This course is intended to enhance the level of fundamental research and develop applied technology with respect to the production and management of plant and animal resources.

Bioresource Production Science Department

In order to achieve the educational goals of this course, study and research is developed for each of the four fields of study below:

(1) Plant Resource Production

This chair is intended to train specialists in rationalizing qualitative and quantitative improvement of the production of field crops, fruits and vegetables, ornamental plants and forestry and forestry products as well as plant idioplasm.

(2) Plant and Animal Production under Structure

This chair is concerned with understanding the basic problems of improving productivity by creating artificial environments such as greenhouses, and the technological examination of agricultural facilities, along with the environmental and behavioral characteristics of plants and animals.

(3) Aquaculture and Livestock Production

This chair provides instruction and research programs concerning the culture, propagation (reproduction), feeding, pathology and environment of aquatic life and domestic animals from the integrated viewpoint of biology, chemistry and physics.

(4) Bioresource Economics

The research and instruction field of this chair is the following: farm, forest, and fishing ground management,including business analysis and planning of farm, forest, and fishing ground operation, and marketing of fruits, vegetables, livestock, timber, and fishery products; resource economics, including effective use of biotic resources as production factors, energies and green resources; and social economic field, including policies and strategies closely related to farm, forest, and fishing ground management, and domestic and international marketing of agricultural, forest and fishery products.

Deep Seawater Science (Joint Department)

This field of study provides basic education and research in elucidating the chemical, physical, biological and microbiological characteristics of deep seawater for the efficient use and applied technology in fisheries and marine food production.

2. Applied Bioresource Science

Processing and storage or effective utilization of agricultural products is important not only for national

economics but also for diverse social needs for bioresources including agricultural products. The necessity for basic research and investigation has been strengthening in the development of chemical, biotechnological and up-to-date techniques. This course aims to make practical use of applied technology which has concurrently been developed by use of basic methods.

Applied Bioresource Science Department

In order to achieve the educational goals of this course, study and research is developed for both the fields of study below:

(1) Food Science

This chair is concerned with understanding food from its production to ingestion, and covers the following areas of study: chemistry, physics, nutrition, hygienics, manufacturing of agricultural products and aquatic products, and applied microbiology of food, as well as applied biochemistry including morphology, structure, and functions of tissue contents and cell organelles.

(2) Bioresource Science for Manufacturing

This chair provides students instruction and research programs in the fields of chemistry, biochemistry and biotechnology as a base for production of plant and animal resources as well as application of knowledge about the use of economic resources from the viewpoint of chemistry, physics, physiology and biochemistry.

3. Life Environment Conservation Science

The increases in population and consumption of natural resources have reached unprecedented levels, and the limits of global resources plus human existence and activities are now commonly recognized, and have gained greater importance. The conservation of the life environment, which is a base for bioresource production and human existence, and rational use of environmental factors are in strong demand to contribute to agriculture. This course provides investigation and research based on technological and ecological methods.

Life Environment Conservation Science Department

In order to achieve the educational goals of this course, study and research is developed for both the fields of study below:

(1) Land Conservation and Irrigation Engineering

Using physical and technological methods, students study the consolidation, maintenance and improvement of various geographical features such as forests, cultivated land, shores and coastal waters, along with the rationalization of water use, and maintenance and development of facilities related to water use.

(2) Environmental Science

This chair provides instruction and research programs concerning the basic study and applied technology of the structure and function of various ecosystems ranging from the terrestrial land to the seas, along with environmental changes caused by human activities, and conservation and management of life environments.

Education and Research

Advisory System

UGAS-EU consists of three majors and four departments. It has an academic staff with expertise that extends beyond that of any one of the constituent universities. Three supervisors are assigned to each student: the supervisor and two co-supervisors. Students study at the same university as his/her supervisor (Ehime University, Kagawa University and Kochi University).

Instruction

Applicants can choose a supervisor by referring to the list provided on the "Fields of Instruction and Supervising Professors" pages. Once accepted by a supervisor, they will take an examination. When admitted, they will be assigned two co-supervisors. UGAS-EU candidates will receive direct professional guidance and instruction for the doctoral thesis from the supervisor, however, the candidate is free to go to the co-supervisors for further instruction. Upon entering UGAS-EU, the supervisor will go over the research proposal in close cooperation with the two co-supervisors and the candidate.

Education

The primary goal of UGAS-EU is to train top level researchers with a broad knowledge of agricultural science who will be able to continue their research activities on their own after graduating. The Student Education Program was established in April 2006. This program entails research supervision by several faculty members, seminars and a mid-term review of both the dissertation and research progress. The seminars consist of Joint Seminars providing fundamental knowledge, and Special Seminars which are more specialized in content. In the first year, the residential Joint Seminar is held with sessions on thesis writing and presentation skills. A credit system was introduced in April 2009 to enhance graduate school education.

We also offer competitive programs which provide funding for presenting at international conferences and independent research projects.

UGAS-EU eagerly welcomes students from foreign countries. We feel Japan and UGAS-EU should play a role in the internationalization of education and in protecting environmental resources. To enhance the research ability of working students, we have a special three-year program for international students in tropical and subtropical agriculture and related sciences.

In addition, in October 2002, Ehime, Kagawa and Kochi universities started a special master's program in agriculture for international students from Asia, Africa and the Pacific Rim that leads into our special doctoral course for Asian, African and Pacific Rim students.

Research

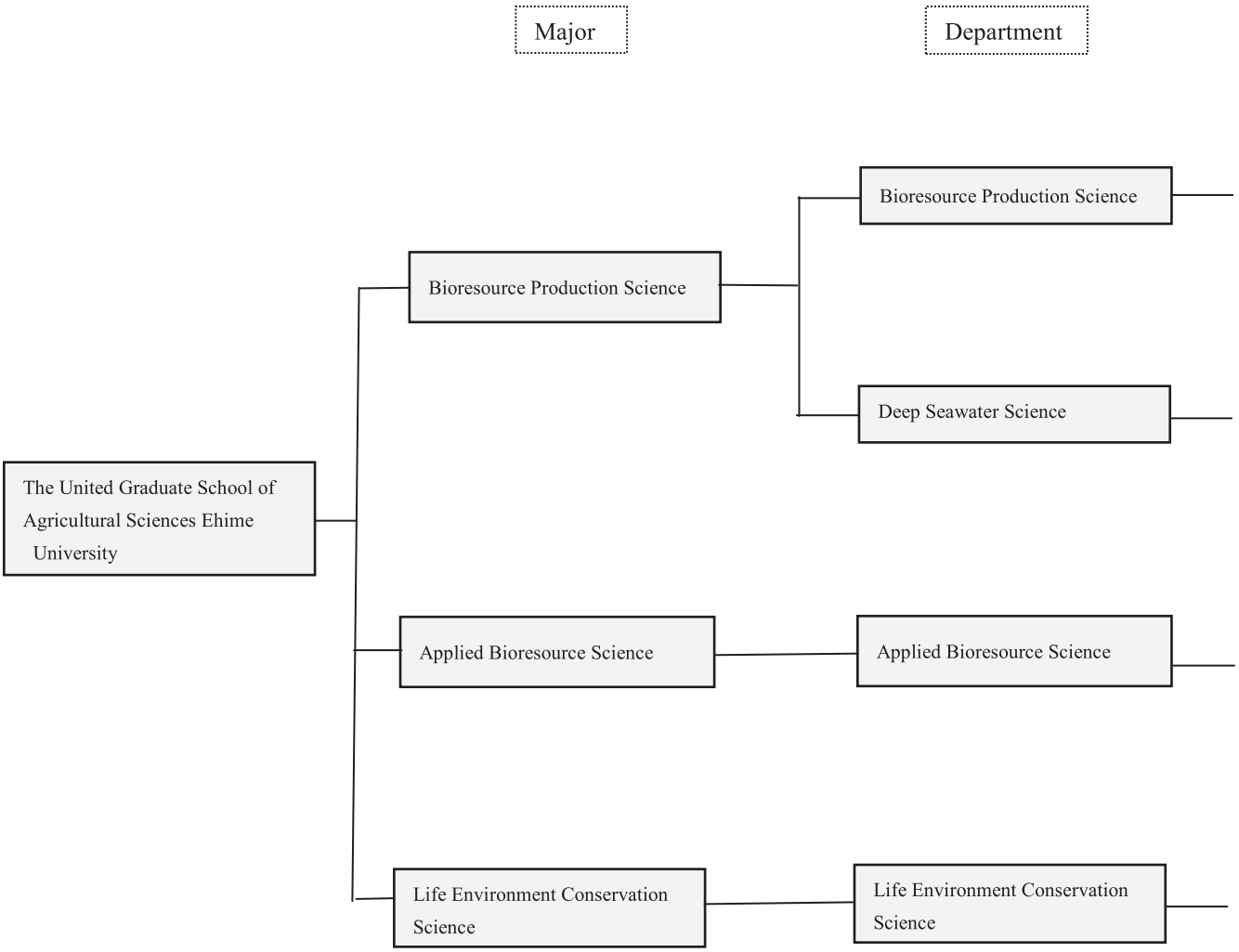
The three constituent universities each have a history of providing a base for bioresource production through academic research, thus promoting the growth of the Shikoku Island region. Therefore, the combined resources of these universities should have a greater impact in the research fields of agriculture, forestry, fisheries and food science. These resources will support a wider range of research in production technology, the environment and human life issues, and product processing, utilization and distribution.

Completion of the Doctoral Course

The UGAS-EU doctoral course requires a minimum residency of three years. Students are also required to earn 12 academic credits, submit a doctoral dissertation, and pass a final examination. If a course subject proves to be difficult for a working student, then it may be possible to arrange an alternative.

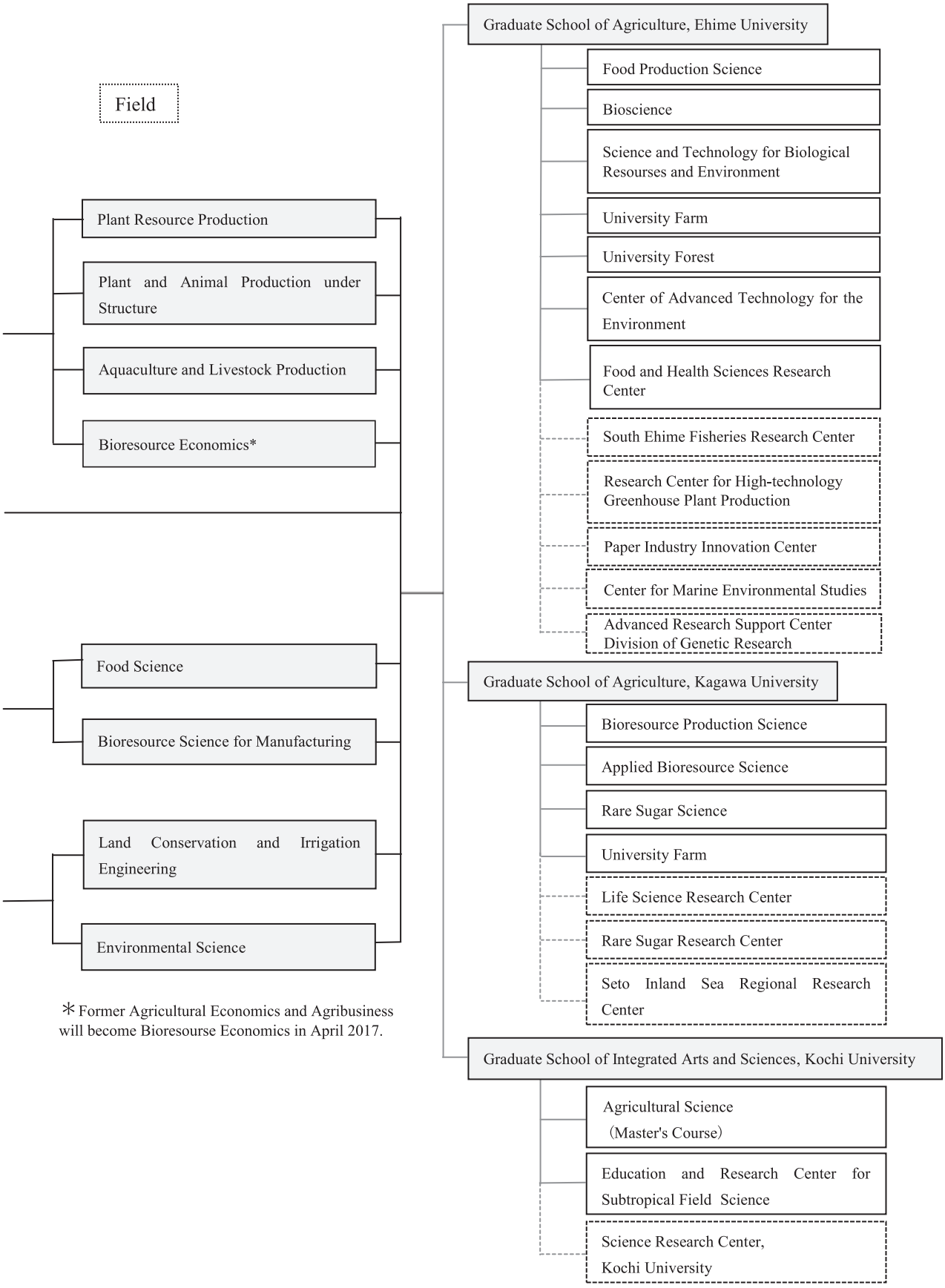
Those who successfully complete their course will receive a Doctor of Agriculture or Doctor of Philosophy.

Organization



UGAS-EU is based on the equal status of Kagawa, Kochi and Ehime universities and operates with their close cooperation. Although it draws from the facilities and staff of the Master's course of each university, the UGAS-EU is an independent institution which is run separately under its own management and regulations.

Three majors are offered by UGAS-EU : Bioresource Production Science, Applied Bioresource Science and Life Environment Conservation Science. There are four departments.



＊Former Agricultural Economics and Agribusiness will become Bioresourse Economics in April 2017.