

Description of the Master's Program
Animal Science and Agriculture
Graduate School of Animal and Veterinary Sciences and Agriculture
Obihiro University of Agriculture and Veterinary Medicine

The mission of the Graduate School is to make a contribution to the local and the global communities through the development of practical science through intellectual creation and practice, and by fostering the professionals who will support food production and people's lives. Under such philosophy and purpose, we provide the following education policies:

1. Education Policy of the Master's Program of Animal Science and Agriculture

Admission Policy

The Master's Program of Animal Science and Agriculture at the Graduate School of Animal and Veterinary Science and Agriculture aims to train persons who have strong issue-resolving skills and a wide range of knowledge on animal science and agriculture, specifically in food safety. We implement written examinations on specialized areas and languages, and interviews to evaluate examinees' research plans and abilities in order to recruit students:

1. Who can act with an international perspective and aim to be professionals with highly advanced skills in animal science and agriculture,
2. Who have acquired basic knowledge and skills at the level of undergraduate studies related to the specific topics of the respective Specialties,
3. Who have acquired basic knowledge and skills that enable them to create research plans for the respective Specialties, and
4. Who are extremely interested in issues of food safety, productivity improvement and environmental conservation, and tackle these issues from a perspective of fusing agriculture, animal science, and veterinary science.

Diploma Policy

In the Master's Program of Animal Science and Agriculture, the degree shall be conferred on persons who have taken the courses set up in the curriculum and obtained the required credits to complete the program, who have obtained advanced research skills and wide perspectives that enable them to resolve issues of food safety and other issues in agricultural and livestock science using their up-to-date knowledge and skills in animal science and agriculture such as veterinary life science, animal production, ecology and environmental science, food science, agricultural economics, engineering for agriculture, plant production science, and interdisciplinary fields including these, and who have acquired the following skills:

1. Ethics: Ethics and morals correspondent to social standards and commensurate with a specialist
2. Abilities to identify and resolve issues on their own in life, food, and environmental science while keeping globalization in mind, and resolve them.
3. Communication skills: Presentation skills necessary to explain their process of thinking and making judgments with a global viewpoint.
4. Technical knowledge and skills: knowledge and skills on respective Specialties in this master's program commensurate with advanced professionals, or basic skills commensurate with researchers on issues in respective Specialties, from the perspective of fusing agriculture, animal science, and veterinary medicine.

Curriculum Policy

In order to have the students acquire the knowledge and skills specified in the diploma policy of the Master's Program of Animal Science and Agriculture, we provide education paying attention to the following points:

1. Developing ethics: we offer courses to develop ethics using e-learning.
2. Developing abilities to identify and resolve issues: we offer courses using active learning to brush up logical thinking and develop abilities to identify and resolve issues on securing food safety, improving productivity, and

conserving the environment.

3. Developing practical skills with a global viewpoint: we offer courses to improve skills in making presentations and writing in English so that students acquire the English skills necessary to be globally active. We also offer internships, training abroad, and research presentations, where students can practice the expression and communication skills they have acquired.
4. Forming a rich culture and a broad academic foundation: we offer common general courses, which enable students to acquire a rich culture, and special core courses, which enable them to advance their specialty. At the same time, special courses of other Specialties are offered as elective courses so that students can acquire highly specialized interdisciplinary knowledge.

2. Educational Policies of Respective Specialties

Veterinary Life Science

Persons We Train

We accept students who have completed an undergraduate program other than veterinary medicine, and provide them with knowledge on basic veterinary life science, animal pathobiology, studies of animal infectious diseases, studies of etiology and control of animal diseases, and animal clinical science. We train advanced professionals who can offer a variety of knowledge about animals to society.

Admission Policy

We want students:

1. Who have acquired advanced knowledge, skills, and research abilities on basic veterinary life science, animal pathology, studies of animal infectious diseases, studies of etiology control, and animal clinical science, and who aim to contribute to society from a viewpoint of veterinary life science,
2. Who have acquired undergraduate-level basic knowledge and skills on basic biology and agriculture and animal science,
3. Who can set up research plans on their own in the field of veterinary life science based on basic knowledge and skills in basic biology, and
4. Who can use knowledge and information to logically work through issues in basic biology and agriculture and animal science, and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge of veterinary life science and deep understanding about social activities
2. Issue-resolving skills: abilities to identify issues on their own in veterinary life science, and resolve them.
3. Good communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in veterinary life science fields while respecting others' thoughts and opinions.
4. Technical knowledge and skills: a wide range of technical knowledge of veterinary life science including basic veterinary life science, animal pathobiology, studies of animal infectious diseases, studies of etiology and control of animal diseases, and animal clinical science, and ability to apply and develop these skills and knowledge in society, based on their knowledge of basic biology, and agriculture and animal science.

Curriculum Policy

We offer courses to learn a variety of specialties related to veterinary life science such as basic studies, pathobiology, infectious diseases, etiology and control of animal diseases, and animal clinical science of companion, industrial, experimental, and wild animals.

Animal Production

Persons We Train

We train advanced professionals who have acquired broad and systematic knowledge and skills in biological functions, breeding, reproduction, nutrition, and management of domestic and other animals, and who can flexibly deal with various issues in livestock and life sciences. We also train researchers who have acquired basic skills that enable them

to study issues in the fields of livestock and life sciences.

Admission Policy

We want students:

1. Who have acquired advanced knowledge, skills and research abilities on domestic animals and their production management, and who intend to contribute to society using their knowledge and skills of life science and livestock science,
2. Who have acquired undergraduate-level basic knowledge and skills in animal production,
3. Who have acquired advanced knowledge, skills and research abilities in livestock and its production management, and who can set up research plans on their own in the field of animal production, and
4. Who can use knowledge and information to think logically about issues on domestic animals and their production management and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge of animal production and deep understanding of social activities
2. Issue-resolving skills: abilities to identify issues on their own in livestock and life sciences, and resolve them.
3. Communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in the field of animal production while respecting others' thoughts and opinions
4. Technical knowledge and skills: understanding of the physiology and behavior of domestic animals, and possession of systematic technical knowledge and skills from the basics to applications that lead to genetic improvement and improvement in productivity.

Curriculum Policy

We offer courses in which students can gain an understanding of the physiology and behavior of domestic animals not only from a conventional viewpoint of livestock production but also with considerations of animal welfare and ecosystem, and in which students can acquire up-to-date knowledge and skills from basics to application that lead to genetic improvement and improvement in productivity.

Ecology and Environmental Science

Persons We Train

We train advanced professionals who have acquired broad and systematic knowledge and skills in agricultural and livestock environment and the natural environment surrounding it, and who can flexibly deal with various issues about conservation and management and utilization of the environment. We also train researchers who have acquired basic skills that enable them to study issues in the field of environmental science.

Admission Policy

We want students:

1. Who have acquired broad knowledge, skills and research abilities in conservation and management of agricultural and livestock environments, and natural environments, and who intend to contribute to society using their knowledge and skills in ecological and environmental science,
2. Who have acquired undergraduate-level basic knowledge and skills in ecology and environmental science,
3. Who have acquired knowledge, skills and research abilities in conservation and management of agricultural and livestock environments, and natural environments, and who can set up research plans on their own in the field of ecology and environmental science, and
4. Who can use knowledge and information to think logically about issues on conservation and management of agricultural and livestock environments, and natural environments, and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge on ecology and environmental science and deep understanding about social activities
2. Issue-resolving skills: abilities to identify issues on their own on ecology and environmental science, and resolve them.
3. Communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in the field of ecology and environmental science while respecting others'

thoughts and opinions

4. Technical knowledge and skills: comprehensive and systematic knowledge and skills in roles, functions, and interactions of various organisms that constitute environment, and in conservation, management, and utilization of ecosystems.

Curriculum Policy

We offer courses in which students can, from the perspective of conservation to that of utilization of agricultural and livestock environments, and of the natural environments surrounding them, acquire up-to-date knowledge of the roles, functions, interactions, and relations with agriculture and livestock industry, gain up-to-date knowledge of the animals, plants, insects and microorganisms that constitute the environment, and attain up-to-date knowledge of conservation of ecosystems.

Food Science

Persons We Train

By providing broad and up-to-date knowledge and techniques for production and processing of foods made from agricultural and livestock ingredients, and about the functionality and safety of such foods, and by conducting professional education through practice and research, we train advanced professionals who can play an active role in food industry and bio industry, and also train researchers who have acquired basic skills that enable them to study issues in the field of food science.

Admission Policy

We want students:

1. Who have acquired advanced knowledge, skills, and research abilities in production and processing of foods made from agricultural and livestock ingredients, and in the functionality and safety of such foods, and who intend to contribute to society from a viewpoint of food science,
2. Who have acquired undergraduate-level basic knowledge and skills in food science,
3. Who can set up research plans on their own in the field of food science based on advanced techniques for processing and utilizing agricultural and livestock products, and on knowledge about various functions that foods have, and
4. Who can use knowledge and information to think logically about issues in food production and processing, and in their functionality and safety, and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge on food science and deep understanding about social activities
2. Issue-resolving skills: abilities to identify issues on their own in food science, and resolve them
3. Communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in food science while respecting others' thoughts and opinions
4. Technical knowledge and skills: advanced knowledge, skills and application for production and processing of foods made from agricultural and livestock ingredients, and about the functionality and safety of such foods

Curriculum Policy

We offer courses to learn broad and up-to-date knowledge and skills for production and processing of foods made from agricultural and livestock ingredients, and about the functionality and safety of such foods, from the molecular level to the level of industrial production.

Agricultural Economics

Persons We Train

By conducting professional education that enables a broad perspective to be taken from a social scientific viewpoint centered on agricultural economy, we train advanced professionals who can offer practical measures to resolve specific issues in food systems, and also train researchers who have acquired basic skills that enable them to study issues in the field of agricultural economics.

Admission Policy

We want students:

1. Who have acquired broad and advanced knowledge and skills in agricultural economics and business related to food production, distribution and consumption, and who intend to contribute to society from a viewpoint of agricultural economics,
2. Who have acquired undergraduate-level basic knowledge and skills in agricultural economics,
3. Who can set up research plans on their own in the field of agricultural economics based on basic knowledge and skills in agricultural economics and business related to food production, distribution and consumption, and
4. Who can use knowledge and information to think logically about issues on agricultural economics and business, and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge on agricultural economics and deep understanding about social activities
2. Issue-resolving skills: abilities to identify issues on their own in agricultural economics, and resolve them.
3. Communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in the field of agricultural economics while respecting others' thoughts and opinions
4. Technical knowledge and skills: advanced knowledge and skills in agricultural economy in order to utilize local resources and support the improvement of food productivity and food safety

Curriculum Policy

We offer courses in which students can acquire knowledge and skills in the field of economics and business related to food production, distribution and consumption, and sustainable recycling.

Engineering for Agriculture

Persons We Train

By conducting professional education on systematized techniques that make advanced agricultural production techniques compatible with environmental conservation based on theories and practices of engineering for agriculture, we train advanced professionals who can play an active role in the fields of engineering for agriculture and rural communities, and also train researchers who have acquired basic skills that enable them to study issues in the fields of engineering for agriculture and rural communities.

Admission Policy

We want students:

1. Who have acquired knowledge of regional environmental conservation and of production technique improvement that goes together with the environment, based on the background of engineering for agriculture, and who intend to contribute to society from a viewpoint of engineering for agriculture,
2. Who have acquired undergraduate-level basic knowledge and skills in engineering for agriculture,
3. Who can set up research plans on their own in the field of engineering for agriculture based on basic knowledge and skills in production technique improvement and regional environmental conservation, and
4. Who can use their background of engineering for agriculture to think logically about issues in production techniques and regional environment, and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge of engineering for agriculture and deep understanding about social activities
2. Issue-resolving skills: abilities to identify issues on their own in engineering for agriculture and resolve them.
3. Communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in the field of engineering for agriculture while respecting others' thoughts and opinions.
4. Technical knowledge and skills: advanced knowledge and skills in production techniques and environmental control in order to support the improvement of food productivity utilizing local resources.

Curriculum Policy

We offer courses in which students can acquire advanced knowledge and skills in the fields related to the improvement

of the food production environment by mechanical and biological approaches and approaches using civil engineering techniques, and sustainable recycling and use of regional resources.

Plant Production Science

Persons We Train

By conducting professional education from the basics of laboratory work to fieldwork demonstration on soil management, which supports crop production, breeding and cultivation of field crops and feed crops, pest control, and utilization of grassland, we train advanced professionals who engage in making the foundation for agricultural and livestock industries, and also train researchers who have acquired basic skills that enable them to study issues in the fields of plant production science.

Admission Policy

We want students:

1. Who have acquired advanced knowledge, skills, and research abilities in quantitative and qualitative improvement of plant production based on advanced knowledge of plant physiology, biology and heredity as well as soil, and who intend to contribute to society from a viewpoint of plant production science,
2. Who have acquired undergraduate-level basic knowledge and skills in plant production science,
3. Who can set up research plans on their own in the field of plant production science based on knowledge and skills for improving and producing crop plants, and knowledge and skills in soils and pests, and
4. Who can use knowledge and information to think logically about issues on quantitative and qualitative improvement of plant production, and explain the results.

Diploma Policy

The degree shall be conferred on persons who have the following traits and abilities:

1. Ethics: ethics and morals based on knowledge of plant production science and deep understanding about social activities
2. Issue resolving skills: abilities to identify issues on their own on plant production science, and resolve them
3. Communication skills: presentation and communication skills necessary to precisely express their thoughts and opinions, and exchange opinions in the field of plant production science while respecting others' thoughts and opinions
4. Technical knowledge and skills: advanced knowledge and skills in food production principles and production techniques in order to support the improvement of food productivity utilizing local resources.

Curriculum Policy

We offer courses in which students can acquire advanced knowledge and skills in the field related to quantitative and qualitative improvement of plant production based on advanced knowledge of plant physiology, biology and heredity as well as soil, and sustainable recycling and use of regional resources.

3. Graduate Degree Program of Animal and Food Hygiene

The Graduate Degree Program of Animal and Food Hygiene has been established to train persons who can deal with acquisition and maintenance of the international safety and hygienic standards, which businesses are demanded to meet, as distribution of agricultural products and food beyond nation boundaries is expanding. The program has been developed by making the highly professional education on securing food safety into a graduate degree program that students of any Specialty can take.

The program trains animal and food hygiene specialists with abilities for practice and application, by conducting professional education on management systems for safety and hygiene of agricultural products and other foods in a practical environment that meets international standards.

Students who take this program must take the required and elective courses of this specific program, and the *Studies on Issues of Animal and Food Hygiene* (internship) or the *Special Studies II* of the Specialty they belong to, in addition to the required courses and elective courses common in the master's program.

Note 1: In *Studies on Issues of Animal and Food Hygiene* (4 credits), students study issues through internship at a company for six weeks or longer. Students in this program who write a master's thesis have to take the *Special Studies*

II (4 credits) of the Specialty they belong to.

Note 2: Students in this program are to choose the Master's Degree in Agriculture or the Master's Degree in Animal and Food Hygiene after they have completed their first year.

Graduate Degree Program of Animal and Food Hygiene

Persons We Train

By conducting practical and systematic education for HACCP system specialists, and for developing new processing technology and products aiming to create sixth industry businesses, we help students to acquire knowledge and skills in food safety management systems, and by cooperating with companies, we train persons who can apply their knowledge and skills to actual workplaces.

Diploma Policy

The degree shall be conferred on persons who have acquired advanced and comprehensive knowledge and skills in hygienic management and quality assurance of livestock products and other foods under international safety and hygienic standards, and superior abilities in their practice and application.

Curriculum Policy

We arrange classroom courses in which students learn knowledge and skills in food safety management systems under international hygienic standards in practical and systematic manners. Also, cooperating with companies, we arrange practicums in which students learn to apply their knowledge and skills to actual worksites.

4. Completion of programs and awarding degrees

Students are awarded a degree according to their Specialties after they completed the program, i.e., those who have been enrolled in the Master's Program of Animal Science and Agriculture, Graduate School of Animal and Veterinary Science and Agriculture of our university for two years or longer, and have earned the required credits (30 credits for regular Specialties, 32 credits for the Graduate Degree Program of Animal and Food Hygiene), who received the necessary research instruction, and passed the examination of their master's thesis or result report in addition to the final examinations of the relevant courses. However, for those who achieved excellent results, the period enrolled in the graduate school could be shortened to one year.

| Program | Specialty | Degree |
|--------------------------------|-----------------------------------|--------------------------------------------------------------------------|
| Animal Science and Agriculture | Veterinary Life Science | Master of Veterinary Life Science, or Master of Animal and Food Hygiene* |
| | Animal Production | Master of Agriculture, or Master of Animal and Food Hygiene* |
| | Ecology and Environmental Science | |
| | Food Science | |
| | Agricultural Economics | |
| | Engineering for Agriculture | |
| | Plant Production Science | |

*Those who completed the Graduate Degree Program of Animal and Food Hygiene can choose Master of Animal and Food Hygiene.

5. Supervisors

Veterinary Life Science

| Name | Position | Field of Research | Contents |
|---------------------|---------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Makoto Igarashi | Professor | Diseases Control | Parasitism of protozoan parasites |
| Toshiaki Ishii | Professor | Neuropharmacology | Molecular basis of physiological and pathological manifestations in the central nervous system |
| Toru Ishikawa | Professor | Cell Physiology | Cellular regulatory mechanisms and structure-function relationships of ion channels and transporters involved in epithelial transport |
| Haruko Ogawa | Professor | Veterinary Epizootiology | Study on animal viral diseases |
| Shinichiro Kawazu | Professor | Preventive Medicine for Protozoan Diseases | Development of novel vaccines and therapeutic approaches based on functional analysis of the protozoan genome and proteins |
| Xuenan Xuan | Professor | Host Defense | Studies on analysis of host defense immunity and development of recombinant vaccines against protozoan parasite infections |
| Yoshiyasu Kobayashi | Professor | Diagnostic Pathology | Pathogenesis and diagnosis of animal diseases |
| Motoki Sasaki | Professor | Veterinary Anatomy | Functional morphology in vertebrates |
| Hiroshi Suzuki | Professor | Functional Genomics | Analysis of gene function <i>in vivo</i> by transgenic technology and development of reproductive biotechnology |
| Yasuo Nambo | Professor | Equine Reproduction | 1) Research area for theriogenology 2) Reproductive biology, 3) Reproductive endocrinology in horses |
| Yoshifumi Nishikawa | Professor | Infection Immunity | Study on onset mechanism of pathogenic protozoan diseases |
| *Hidefumi Furuoka | Professor | Pathobiological Science | The pathology of neuromuscular disorders and the pathology of infectious diseases (e.g., animal prion diseases, <i>Lawsonia</i> infection) |
| Motozumi Matsui | Professor | Diagnosis and Therapeutics for Reproductive Diseases | Pathophysiology of ovarian and uterine disorder in cow reproduction |
| Naoaki Yokoyama | Professor | Diagnosis for Protozoan Diseases | Epidemiological survey of protozoan disease in domestic animals and development of its control strategy |
| Takahiro Aoki | Associate Professor | Preventive Veterinary Medicine | Development of methods for prevention and early detection of diseases associated with bovine and equine production |
| Masahito Asada | Associate Professor | Infection Control | 1) Study on the mechanism of parasitism 2) Epidemiological survey of protozoan disease |
| Akiko Uemura | Associate Professor | Small Animal Surgery Cardiology | 1) Soft tissue surgery for dogs and cats 2) Cardiology for dogs and cats 3) Research on artificial organs and biomaterials |

The Professor marked with * will retire on March 31, 2023. If you would like to be supervised by him/her, please consult in advance about research instruction.

| Name | Position | Field of Research | Contents |
|------------------------|----------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Kayo Okumura | Associate Professor | Bacteriology | Molecular mechanisms of bacterial pathogenesis and developments of diagnostic tools for bacterial pathogens |
| Akira Kubota | Associate Professor | Environmental Toxicology | Study on biological effects and mode of action of anthropogenic chemicals |
| Rika Umemiya-Shirafuji | Associate Professor | Tick Biology | 1) Biology of ticks 2) Transmission mechanisms of protozoan parasites in ticks |
| Nao Tsuzuki | Associate Professor | Image Diagnosis | Research on image diagnosis for farm animals |
| Takahito Toyotome | Associate Professor | Veterinary Mycology | 1) Mycosis 2) Mycotoxicosis 3) Food Mycology |
| Toyoko Hiroi | Associate Professor | Pathogenic Bacteriology | Molecular mechanisms of bacterial infections and its pathogenicity. Development of diagnosis and detection methods of bacterial infections. |
| Shinya Fukumoto | Associate Professor | Vector Biology | Infection mechanism of pathogens to the vector invertebrate |
| Kotaro Matsumoto | Associate Professor | Veterinary Internal Medicine | Diagnosis and treatment of infectious diseases of animals |
| Yoshikage Muroi | Associate Professor | Neuropharmacology | Study on the central nervous system for controlling instinctive behaviors |
| Eiki Yamasaki | Associate Professor | Food Hygienics | Management and establishment of detection methods for food-poisoning bacteria. |
| Mitsunori Kayano | Senior Assistant Professor | Biostatistics | Statistics in medicine and agriculture and its applications |
| Daisuke Kondoh | Assistant Professor | Veterinary Anatomy | Morphological and histological studies of vertebrate olfactory organ and brain |
| Keisuke Suganuma | Assistant Professor | Protozoan disease | Development for control strategies for animal trypanosomoses |
| Yohei Takeda | Assistant Professor | Infectious Disease | Study on control of viral infectious diseases |
| Kenichi Watanabe | Assistant Professor | Diagnostic Pathology | Veterinary pathology diagnostic services. Molecular mechanisms of protein-misfolding diseases. |

Animal Production

| Name | Position | Field of Research | Contents |
|------------------------------|---------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Keigo Kuchida | Professor | Animal Breeding | Statistical genetics for beef cattle based on objective measurements |
| Masafumi Tetsuka | Professor | Reproductive Physiology | Studies on ovarian physiology, oocyte maturation, fertilization and embryo development in domestic animals |
| Takehiro Nishida | Professor | Animal Feeding | Nutritional physiology and feed evaluation in ruminants |
| Akio Miyamoto | Professor | Animal Reproduction | Immune system for regulating fertility: a cross-talk between sperm/embryo and maternal genital tract |
| Acosta Ayala Tomas Javier | Associate Professor | Animal Production Animal Disease Control | Improving efficiency dairy and beef cattle production. Herd health management. |
| Chiho Kawashima | Associate Professor | Animal Nutrition and Reproduction | 1) Study on metabolic status and reproductive function during the perinatal period. 2) Study on nutritional and metabolic status of dam and fetus. |
| Nobuyuki Kusaba | Associate Professor | Animal Hygiene Dairy Production Medicine | 1) Animal Hygiene: Disease control of calves 2) Mastitis Control: Prevention and therapy |
| Tetsuya Seo | Assistant Professor | Animal Behavior Animal Welfare | Studies on animal behavior and animal welfare |
| Koichi Hagiya | Associate Professor | Animal Breeding | Genetic improvement of dairy cattle based on quantitative genetics |
| Masaaki Hanada | Associate Professor | Livestock Production | Improvement of productivity and sustainability of livestock production based on regional feed resources such as herbage and agricultural byproducts |
| Nobuyoshi Matsunaga | Associate Professor | Animal Physiology | 1) Study on metabolic hormones related to growth 2) Study on intermediate blood metabolites |
| Tatsuhiko Goto | Assistant Professor | Animal Breeding and Genetics | 1) Genetic analyses of phenotypes using a variety of chicken breeds 2) Genetic and environmental factors in egg composition traits |
| Naoki Fukuma | Assistant Professor | Gut Microbiology Animal Nutrition | Study on gut microbes related to animal health and productivity |
| Yuki Muranishi | Assistant Professor | Animal Development | Development and cell fate regulation of domestic animals |

Ecology and Environmental Science

| Name | Position | Field of Research | Contents |
|-------------------|---------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Tatsuo Oshida | Professor | Mammalogy | Ecological and phylogeographical studies of wild mammals |
| Hisashi Yanagawa | Professor | Wildlife Management | Eliminate the conflict between humans and wildlife |
| Yushin Asari | Associate Professor | Wildlife Ecology | 1) Ecological study of arboreal mammals 2) Human-wildlife conflict 3) Road ecology |
| Norikuni Kumano | Associate Professor | Insect Ecology | Behavioral Ecology, Population Ecology |
| Yasushi Hashimoto | Associate Professor | Fungal Ecology | Ecological studies of plants and associated fungi in natural and agricultural ecosystems. |
| Takeo Yamauchi | Associate Professor | Systematic Entomology | 1) Taxonomic study using insect specimens 2) Evaluation of environment using insects as bioindicators 3) Medical and veterinary entomology |
| Takumi Akasaka | Assistant Professor | Conservation Science | 1) Biodiversity Conservation and Ecosystem Service 2) Systematic Conservation Planning Anthropogenic Disturbance and Land-use Strategy |
| Kohei Koyama | Assistant Professor | Plant Ecology | Agricultural and Forest plant ecology, plant-animal interactions (pollination, dispersal, herbivory, defense, etc.) |

Food Science

| Name | Position | Field of Research | Contents |
|-------------------|---------------------|----------------------------------|----------------------------------------------------------------------|
| Shinya Ikeda | Professor | Food and Biochemical Engineering | Food quality and structure–functionality relationships |
| Takuji Ohwada | Professor | Applied Microbiology | Symbiotic relationship between plant and microorganism |
| Mikio Kinoshita | Professor | Food Functional Chemistry | Food biochemistry of functional lipids |
| Kenichiro Shimada | Professor | Meat Science | Applied studies on meat science / meat processing |
| Jun Watanabe | Professor | Food Functional Chemistry | Mechanistical studies on functionalities of food resources |
| Masayuki Sugawara | Associate Professor | Applied Microbiology | Studies on brewing microorganisms and plant symbiotic bacteria |
| Tadashi Nakamura | Associate Professor | Dairy Science | Applied studies on utilization and processing of dairy products |
| Kyu-ho Han | Associate Professor | Food Science | Research for bioresources on health-function |
| Kenji Fukuda | Associate Professor | Food Science | Studies on functionalities of milk proteins and lactic acid bacteria |
| Nana Mikami | Assistant Professor | Food Science | Meat science, food nutrition |
| Shinji Yamashita | Assistant Professor | Food Biochemistry | Food function of lipids |

Agricultural Economics

| Name | Position | Field of Research | Contents |
|-------------------|---------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hiroichi Kono | Professor | Agricultural Economics | 1) Economics and Epidemiology 2) Development Economics 3) Livestock Development and Poverty Reduction |
| Yasushi Sembokuya | Professor | Agricultural Economics | 1) Economic analysis on the development of farm level hygiene management 2) Comparative analysis on the distribution system of agricultural products |
| Hiroyuki Iwamoto | Associate Professor | Agricultural Economics | 1) Economic Valuation of the Agricultural Environment 2) Research on internalization of external diseconomies in the livestock industry 3) Research on local resource evaluation |
| Youichi Kawano | Assistant Professor | Agricultural management | 1) Management Capabilities 2) Decision Information Analysis 3) Management Strategy in Traditional Industries |
| Satoko Kubota | Assistant Professor | Agricultural Economics | 1) Economic analysis on food hygiene 2) Harmful rumor and risk communication |

Engineering for Agriculture

| Name | Position | Field of Research | Contents |
|---------------------|---------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| * Kazutaka Umetsu | Professor | Bioprocess Engineering | Studies on advanced fermentation methods to convert energy and development of methods to utilize nitrogenous compounds for livestock farming |
| * Tadashi Kishimoto | Professor | Agricultural Machinery | 1) Dynamics of traction device of agricultural vehicle 2) Development of application technology for dairy manure slurry |
| Toshimi Muneoka | Professor | Irrigation, Drainage and Rural Engineering | 1) River water quality and land use in agricultural and forest watersheds 2) Slope conservation and revegetation technology |
| Masato Kimura | Associate Professor | Agricultural Meteorology | Use of cold energy from natural ice |
| Fumihito Miyatake | Associate Professor | Bioresource Engineering | Theoretical and technological studies on composting and biomass |

The Professor marked with * will retire on March 31, 2023. If you would like to be supervised by him/her, please consult in advance about research instruction.

Plant Production Science

| Name | Position | Field of Research | Contents |
|--------------------|---------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Kiyoaki Kato | Professor | Plant Molecular Breeding | Molecular basis and applied studies on plant breeding |
| Masanori Koike | Professor | Insect Pathology | Biological control using entomopathogenic fungi |
| Masayuki Tani | Professor | Soil Science | Evaluation and improvement on soil fertility in arable land |
| Masahiro Hirata | Professor | Rangeland Ecology Culture Anthropology | 1) Study on rangeland ecology and environmental conservation in dry areas 2) Study on subsistence and milk culture of pastoralists in dry areas |
| Name | Position | Field of Research | Contents |
| Masahiro Akimoto | Associate Professor | Crop Science | Improvement of cultivation methods of common food crops and fodder crops. |
| Kazumitsu Onishi | Associate Professor | Plant Breeding | Genetic studies on quantitative traits in crop species |
| Daigo Aiuchi | Assistant Professor | Applied Entomology | Studies on pest control of pathogen vector insects |
| Jun Kasuga | Assistant Professor | Plant Physiology | Abiotic stress adaptation mechanisms in plants |
| Rintarou Kinoshita | Assistant Professor | Soil Science Environmental Information Science | Evaluation of soil fertility and improvement under arable cropping systems |
| Masahiko Mori | Assistant Professor | Plant Production Science | Study on physio-morphological characteristics in crop plants |

Application and enquiries

Entrance Examination Office,
Obihiro University of Agriculture and Veterinary Medicine.
11 Nishi 2, Inadacho, Obihiro, Hokkaido 080-8555, Japan
Tel: (0)155-49-5321 (direct line) (8:30 a.m. – 5:15 p.m., Monday – Friday)
E-mail: nyushi@obihiro.ac.jp

Obihiro University of Agriculture and Veterinary Medicine Website

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<<https://www.obihiro.ac.jp/en>>