

This is for your reference only.

Code	Course title	Semester	Quarter	Main Instructor	Course description
01AG1062	Special Lecture on Agriculture III (Cellular Communication in Biological System)	Fall Semester	3rd Quarter	YASUMURA Yuki	As biological phenomena and technologies are extensively applied in both scientific and social contexts, scientific researchers are required to be equipped with knowledge and skills to describe and discuss biotechnology-related research. In particular, current topical subjects and health problems are often related to nervous system, endocrine system, and immunology. Focusing on cellular communication in such topical subjects, this lecture course aims to develop skills to discuss such topics and research questions in English. Students will work on thought problems, and describe and discuss their own ideas and interpretations. Such exercise and discussion opportunities are designed for students to learn and practice English phrases and expressions that are frequently used in explaining biological processes, functional interactions and regulatory mechanisms, as well as identifying similarities and differences of biological systems in function and effect.
01AG1064	Special Lecture on Agriculture III (Sound Science in English~Speech Production and Perception)	Spring Semester	1st Quarter	MOORE JEFFREY MATTHEW	The study of the sounds of language crosses many disciplines. The field of phonetics includes the study of the physical production of speech sounds, measurement of those sounds as they travel through the air, and how those sounds are perceived by listeners. The related field of phonology studies how these sounds are organized within languages. This course provides students with an opportunity to think about language in a scientific way, to dabble in a broad range of scientific studies, and to use some of the research methods used in the study of language sounds. They will also have many opportunities to think critically about the languages they can speak, and practice talking about language and the study of language in English.
01EL1003a	English Discussion	Fall Semester	3rd Quarter	ADELAIDE K. VAMBE	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003b	English Discussion	Fall Semester	3rd Quarter	JAMES BALDWIN	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003c	English Discussion	Fall Semester	3rd Quarter	MOORE JEFFREY MATTHEW	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003d	English Discussion	Fall Semester	3rd Quarter	ONWONA-AGYEMAN Siaw	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01EL1003e	English Discussion	Fall Semester	3rd Quarter	Jonathan Hennessy	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003f	English Discussion	Fall Semester	3rd Quarter	ADELAIDE K. VAMBE	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003g	English Discussion	Fall Semester	3rd Quarter	JAMES BALDWIN	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003h	English Discussion	Fall Semester	3rd Quarter	MOORE JEFFREY MATTHEW	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003i	English Discussion	Fall Semester	3rd Quarter	ONWONA-AGYEMAN Siaw	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL1003j	English Discussion	Fall Semester	3rd Quarter	Jonathan Hennessy	Outline (English Discussion): This course aims to improve each student's basic speaking fluency and ability to effectively communicate in English through the discussion of a variety of general and academic topics. This course is mandatory for first-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL2005a	English Presentation	Spring Semester	1st Quarter	ONWONA-AGYEMAN Siaw	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL2005b	English Presentation	Spring Semester	1st Quarter	TOKIOKA Motoyoshi	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01EL2005c	English Presentation	Spring Semester	1st Quarter	ADELAIDE K. VAMBE	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01EL2005e	English Presentation	Spring Semester	1st Quarter	JAMES BALDWIN	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL2005f	English Presentation	Spring Semester	1st Quarter	ONWONA-AGYEMAN Siaw	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL2005g	English Presentation	Spring Semester	1st Quarter	TOKIOKA Motoyoshi	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL2005h	English Presentation	Spring Semester	1st Quarter	ADELAIDE K. VAMBE	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL2005j	English Presentation	Spring Semester	1st Quarter	JAMES BALDWIN	This course aims to improve each student's ability to plan and deliver effective academic presentations in English. Special focus is given to improve students' presentation skills and Q&A abilities. This course is mandatory for second-year students as an introduction to the English curriculum of Tokyo University of Agriculture and Technology.
01EL3010	Academic Reading	Spring Semester	1st Quarter	ONWONA-AGYEMAN Siaw	Outline: The purpose of this course is twofold. The first aim is to provide students with opportunities to read scientific articles in English. The second aim is to provide opportunities for students to communicate in English about these scientific readings. Students will learn how to read and discuss scientific articles in English as well as talk about their own research interests. This course is offered as an advanced course in the English curriculum of Tokyo University of Agriculture and Technology.
01EL3011	Academic Communication	Fall Semester	3rd Quarter	ONWONA-AGYEMAN Siaw	Outline: In this course, students will discuss scientific topics and present scientific journal articles in English. Students will learn to read and understand the contents of scientific papers, and they will practice summarizing their contents in plain, easy-to-understand English. Students will choose papers that match their own research interests and practice discussing their content and presenting them to other students, receiving feedback from the professor on how to communicate science more clearly.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01GA3001	Global Advanced Science (Introduction to Seminars on Agricultural Science)	Spring Semester	1st Quarter	YASUMURA Yuki	In Global Advanced Science, students learn in vivid detail about internationally competitive, cutting-edge research from internationally distinguished researcher, and about how research develops through scientist network and collaborations across the world. The lectures also include examples of how basic studies are fundamental to and applied to the cutting-edge research, and of the research environment in the globalized society. Through such experience, students are encouraged to consider the values of their studies and research in a broad context and towards their own future. This course will aid students to elevate their global awareness and improve their English communication skills in practice. This lecture course is included in Global Integrated Studies of the Liberal Arts and Fundamental Studies, and offers students opportunities to apply and integrate their knowledge and skills obtained in the foundation courses during their first two years in the university.
01IA2003	Practical Research on Technical Management(Agricultural Studies)	Spring Semester	2nd Quarter	HAYASHIDA Hideki	<p>The science and technology in agriculture and engineering studied and researched at the University will be widely returned to society through social implementation through collaborative activities with companies (industry-academia collaboration). To create a future society together with companies, it is important to set goals with a clear focus on targets (exits) that deliver economic and social impact, based on future social and industrial needs.</p> <p>This course is offered as a part of the Global Integrated Studies and is taught by faculty members with practical experience in industry-academia collaboration and open innovation in companies.</p> <p>In this course, guest lecturers from start-up companies will deliver lectures on open innovation, innovation creation processes, and ideas in industry-academia collaboration, with the aim of deepening understanding through classroom lectures and group exercises, and of comprehensively learning about the flow of research results back to society. The following topics will be covered for beginners.</p> <ol style="list-style-type: none"> <li>1. Orientation and understanding of the R&amp;D process in universities and companies</li> <li>2. Positioning of R&amp;D in career design</li> <li>3. Strategies and tactics to generate innovation</li> <li>4. Understanding open innovation and the innovation ecosystem</li> <li>5. Innovation through agriculture-industry collaboration</li> <li>6. Current Status and Future Prospects of Open Innovation</li> <li>7. Current status of agri-bio startups in Japan and abroad</li> <li>8. Group presentations and summary</li> </ol>
01JP1001	Elementary Japanese	Fall Semester	3rd Quarter	ITO Natsumi	This course is designed for students with little or no experience studying Japanese. It helps learners acquire basic communication skills needed in Japanese academic life during their stay in Japan. The participants are also expected to gain general knowledge of Japan and develop skills for further study in Japanese. The course includes group work and activities to share thoughts and experiences in Japanese.

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01MD1002	Diversity and Inclusion through Japanese Culture	Fall Semester	3rd Quarter	ITO Natsumi	*Since English is used as a medium of instruction, the syllabus is written in English. The main objective of this course is to explore and cultivate an understanding of both Japanese culture and culture of the multicultural background of international students through various activities inside and outside the classroom. The second objective is to learn to carry assertive communication. The third objective is to think and act on how one can contribute to a society that consists of people of diverse and multicultural groups. This course is offered in English as one of the Multidisciplinary Courses of the Global Integrated Studies.
01MD1004	International Cooperation Studies	Fall Semester	3rd Quarter	YOKOMORI Kayo	We will focus on international development and assistance centered on official development assistance (ODA) provided by the government, and recent international peace cooperation. The current situation and major issues will be explained with specific examples. Simultaneously, through group discussion, students will proactively search for solutions to global problems and think about international cooperation. This course will be taught in English as one of the Multidisciplinary Courses in the global expansion course.
01MD1102	Inter-University Special Lecture I (Water Resources Management)	Spring Semester	2nd Quarter	KATO Tasuku	Rice production has an important role for sustainable development and food security in ASEAN countries. In this course, demand and supply aspects on rice irrigation planning and water resources management are discussed. Especially, Japanese rice production is discussed.
01MD1103	Inter-University Special Lecture I (The Study on Population Affairs in Developing Societies)	Spring Semester	2nd Quarter	NIE Haisong	This course aims to recognize issues related to population and environmental problems in developing society from a global perspective and to share knowledge and issues through active discussion. To learn about researching studies on developing countries and regions, especially China's population and environmental problems while focusing on population dynamics to effectively realize sustainable development.
01MD1104	Inter-University Special Lecture I (Forest Resources and Biomass)	Spring Semester	2nd Quarter	ANDO Keisuke	This course is a 2-day field trip on forest products and timber engineering (wood processing and wooden construction). We will visit a factory of modern housing company, an ancient wooden bridge Saruhashi(monkey bridge), constructed 1300 years ago, forests at Mt. Fuji, Narusawa village, and the Fujisan World Heritage Center.
01MD1108	Inter-University Special Lecture I (Sustainable Global Food Production Systems)	Fall Semester	4th Quarter	ONWONA-AGYEMAN Siaw	Today, the whole world is facing a situation of an increasing population and the urgent need to produce adequate food supply. Unfortunately, there are still unsustainable food production methods that destroy the resource base. This course aims to teach students about Food Production practices that can bring economic, social and environmental benefits for farmers, communities, and nations.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01MD1502	Inter-University Special Lecture II (Perspective of the Humanities and Social Science on "Kyosei Society" )	Fall Semester	3rd Quarter	YOSHIDA Hiroshi	This course is offered in English as one of the Multidisciplinary Courses of the Global Integrated Studies, and is open to students from Tokyo University of Foreign Studies and the University of Electro-Communications. Attaining sustainable development in our current society may require "Kyosei, " or symbiosis, as an effective way of thinking. This course is intended to inquire into the concept of Kyosei, and the necessary conditions and challenges for establishing a Kyosei society. The class begins with a theoretical inquiry into Kyosei, followed by discussions on the present situations and challenges toward Kyosei society through a series of case studies of current efforts for the construction of a sustainable society in Japan and abroad. What is "Kyosei ?" The class begins with this simple but difficult question. While pursuing the concept and idea of Kyosei, we inquire into how Kyosei works in our current society and what is required for the establishment of a Kyosei society. An inquiry into Kyosei is carried out by referring to several experiences.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01MD1504	Inter-University Special Lecture II (Advanced Biology)	Fall Semester	4th Quarter	YASUMURA Yuki	In this course for fundamental biology and technological applications, it is required to apply the knowledge of English language and science with the aim to deepen the understanding of molecular biology and develop scientific thinking skills. We will learn the structure and function of cells, the mechanism of energy production in cells, evolution of organisms and the transfer and utilization of genetic information from nucleic acids, especially DNA, to biomolecules. We will then learn how such scientific phenomena and the knowledge are applied in industrial and biomedical technologies that support our traditional, modern and future lives. This lecture course includes interactive classes, discussion sessions and opportunities for presentation. This course is offered as part of the Multidisciplinary Courses in Global Integrated Studies of the Liberal Arts.
01VN3313	Hands-on Practice in Veterinary Public Health	Spring Semester	1st Quarter	ISHIHARA Kanako	As an applied veterinary medicine, the course will provide an understanding of the role of veterinarians in the field of public and animal health. In recent years, various problems related to livestock hygiene and public health have arisen that threaten food safety and security, such as outbreaks of infectious diseases in livestock such as foot-and-mouth disease, swine fever, and highly pathogenic chicken flu, detection of residues of pesticides and other chemicals exceeding food standards, and food poisoning caused by Shiga-toxin producing E. coli and other bacteria. On the other hand, there is a shortage of new veterinarians with practical skills in the fields of livestock hygiene and public health, and the training of veterinarians capable of dealing with these problems is an urgent issue. Therefore, this program provides students with the opportunity to experience work at livestock hygiene and public health clinics, meat inspection stations, public health centers, public health laboratories, and national and independent administrative laboratories and inspection stations.
01ia1003	Principles and Potentials of Agribusiness	Fall Semester	3rd Quarter	CHITOSE Atsushi	This course discusses the broad spectrum of agribusiness, with an emphasis on markets and agribusiness agent behavior therein. We provide the fundamentals of production, marketing and distribution throughout the food supply chain (food system). Topics also include strategies of agribusiness firms, food safety and risk analysis of food.
01ia1009	Theory and Practices of Sustainable Agriculture	Fall Semester	3rd Quarter	YAMADA Masaaki	This course provides basic concepts, theories and backgrounds of sustainable agriculture (SA) with a special focus on agroforestry systems. Participants study the cases of SA in various countries in Asia, Africa and Latin America to share and exchange ideas how to apply the case studies for agricultural development in participants' countries.
01ia1010	Introduction to Charcoal Application	Fall Semester	3rd Quarter	OIKAWA Yosei	This intensive course is one of the subjects for " International Agricultural Science" among "Undergraduate Common Specialized Subjects". The course provides basic theories and outdoor practical exercise of charcoal making (biomass carbonization). Participants learn how to make charcoal (recently known as biochar) from tree branches, weed, etc., then, share and exchange the ideas on how to use charcoal for agricultural development and environmental conservation in participants' countries.

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01ia1014	Arid Land Agriculture	Fall Semester	3rd Quarter	KAWABATA Yoshiko	The goal of this course is to understand the problems of arid land, Arid land take up 41.3% of the land surface. The total arid lands population is 2.1 billion, 36% of global population. Desertification is one of the environmental problem in the world. In this class, we introduce the characteristic and importance of agriculture in arid land. It is understood the agriculture in arid land and desertification. Students will discuss the results and learn how to start doing independent research of arid land agriculture. This course is offered in English.
01ia2007	Plant Microbiology	Fall Semester	3rd Quarter	OKAZAKI Shin	This course covers both general and molecular microbiology. Methods in both conventional and modern microbiology will be introduced. Plant-associated microorganisms will be introduced with a special emphasis on rhizobia, AM fungi, endophytes, and plant pathogens. The application of beneficial microbes in agriculture will also be discussed.
01ia2012	Forest Ecology and Management	Fall Semester	3rd Quarter	MATSUMOTO Takeshi	This class will focus on forest community structure, biology, function, and properties of forested ecosystem. We will learn about basic ecological processes and biology for the formation of current forested landscape. We also focus on impact of timber harvesting on ecological and biological consequences. Topics related to current knowledge for mitigation the impacts and develop sustainable forest management can be included. Discussions can also be extended to theories and practices for wildlife management, biodiversity, soil conservation, and water and biogeochemical cycling. This course will be consisted by one-day field class and in-classroom lectures and discussions.
01ia2013	Ecology in Crop Production	Fall Semester	3rd Quarter	TBD	It is very important to understand crop ecology in order to improve crop production. In this course, ecology lying behind crop production is discussed. Students will be required to give several presentations in English.
01ia2015	Basic Meteorology and Natural Disasters	Fall Semester	3rd Quarter	SHIRAKI Katsushige	Students learn the features and characteristics of natural disaster. Students learn the basics of meteorology and soil mechanics which are needed to understand the natural disaster.
01ia3004	Food Chemistry	Fall Semester	3rd Quarter	MIURA Yutaka	This lecture focuses on the chemistry of food ingredients and food processing. The chemical properties of food ingredients and the reactions among foods ingredients are lectured. The experience or visiting of food processing factory or museum will be done in the food processing section.
01ia3005	Food and Nutrition	Fall Semester	3rd Quarter	MIURA Yutaka	This lecture focuses on food functions, food nutrition, and food processing. The physiological functions of foods and metabolism of food components are lectured. You can also learn about food processing in this lecture.
01ia3006	Horticultural Structures and Plant Factory	Fall Semester	3rd Quarter	CHOSA Tadashi	Agricultural structures such as greenhouse, plant nursery, grain store, etc. are needed for stable productions in various climate conditions. Environmental control technologies, measuring instruments, machines, information technologies applied to horticultural structures are explained with progressive case studies. This subject is a specialized subject common to undergraduate courses and is offered as an elective subject in the International Agriculture Program.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01ia3008	Food Safety	Fall Semester	3rd Quarter	TBD	Food safety become the most important issue not only in developed countries and but also developing countries. In this course food safety, especially foodborne illness and prevention of foodborne illness will be lectured.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
01ia3011	Ecosystem Management	Fall Semester	3rd Quarter	WATANABE Makoto	Terrestrial and marine ecosystems are invaluable to humans, but they are threatened by a variety of ongoing environmental problems. This lecture deals with the effects of environmental pollution on terrestrial and marine ecosystems. The lecture will be conducted by two faculty members specializing in marine and terrestrial (forest) ecosystems, respectively.
01vn1602	Overseas Extramural Training	Spring Semester	ONE-YEAR	HAMABE Rina	Choose a specific field of veterinary medicine, and practice it at facilities overseas.
01vn2314	Hands-on Practice in Veterinary Public Health	Spring Semester	1st Quarter	ISHIHARA Kanako	As an applied veterinary medicine, the course will provide an understanding of the role of veterinarians in the field of public and animal health. In recent years, various problems related to livestock hygiene and public health have arisen that threaten food safety and security, such as outbreaks of infectious diseases in livestock such as foot-and-mouth disease, swine fever, and highly pathogenic chicken flu, detection of residues of pesticides and other chemicals exceeding food standards, and food poisoning caused by Shiga-toxin producing E. coli and other bacteria. On the other hand, there is a shortage of new veterinarians with practical skills in the fields of livestock hygiene and public health, and the training of veterinarians capable of dealing with these problems is an urgent issue. Therefore, this program provides students with the opportunity to experience work at livestock hygiene and public health clinics, meat inspection stations, public health centers, public health laboratories, and national and independent administrative laboratories and inspection stations.
18202	Principles and Potentials of Agribusiness	Fall Semester	INTENSIVE	CHITOSE Atsushi	This course discusses the broad spectrum of agribusiness, with an emphasis on markets and agribusiness agent behavior therein. We provide the fundamentals of production, marketing and distribution throughout the food supply chain (food system). Topics also include strategies of agribusiness firms, food safety and risk analysis of food.
18203	Food Chemistry	Fall Semester	INTENSIVE	MIURA Yutaka	This lecture focuses on the chemistry of food ingredients and food processing. The chemical properties of food ingredients and the reactions among foods ingredients are lectured. The experience or visiting of food processing factory or museum will be done in the food processing section.
18204	Food and Nutrition	Fall Semester	INTENSIVE	MIURA Yutaka	This lecture focuses on food functions, food nutrition, and food processing. The physiological functions of foods and metabolism of food components are lectured. You can also learn about food processing in this lecture.
18206	Horticultural Structures and Plant Factory	Fall Semester	INTENSIVE	CHOSA Tadashi	Agricultural structures such as greenhouse, plant nursery, grain store, etc. are needed for stable productions in various climate conditions. Environmental control technologies, measuring instruments, machines, information technologies applied to horticultural structures are explained with progressive case studies. This subject is a specialized subject common to undergraduate courses and is offered as an elective subject in the International Agriculture Program.
18208	Plant Microbiology	Fall Semester	INTENSIVE	OKAZAKI Shin	This course covers both general and molecular microbiology. Methods in both conventional and modern microbiology will be introduced. Plant-associating microorganisms will be introduced with a special emphasis on rhizobia, AM fungi, endophytes and plant pathogens. Application of beneficial microbes in agriculture will also be discussed.

English-Taught Courses List (Faculty of Agriculture )

As of May 2026

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Code	Course title	Semester	Quarter	Main Instructor	Course description
18209	Food Safety	Fall Semester	INTENSIVE	TBD	Food safety become the most important issue not only in developed countries and but also developing countries. In this course food safety, especially foodborne illness and prevention of foodborne illness will be lectured.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
18214	Water Resources Management	Fall Semester	INTENSIVE	KATO Tasuku	Rice production has an important role for sustainable development and food security in ASEAN countries. In this course, demand and supply aspects on rice irrigation planning and water resources management are discussed. Especially, Japanese rice production is discussed.
18218	The Study on Population Affairs in Developing Societies	Fall Semester	INTENSIVE	NIE Haisong	This course aims to recognize issues related to population and environmental problems in developing society from a global perspective and to share knowledge and issues through active discussion. To learn about researching studies on developing countries and regions, especially China's population and environmental problems while focusing on population dynamics to effectively realize sustainable development.
18220	Introduction to Charcoal Application	Fall Semester	INTENSIVE	OIKAWA Yosei	This intensive course is one of the subjects of "AIMS Program" (for exchange students). It provides basic theories and outdoor practical exercise of charcoal making (biomass carbonization) through online class. Participants learn how to make charcoal (recently known as biochar) from bamboo and agricultural residues, then, share and exchange the ideas on how to use charcoal for agricultural development and environmental conservation in participants' countries.
18222	Ecosystem Management	Fall Semester	INTENSIVE	WATANABE Makoto	Terrestrial and marine ecosystems are invaluable to humans, but they are threatened by a variety of ongoing environmental problems. This lecture deals with the effects of environmental pollution on terrestrial and marine ecosystems. The lecture will be conducted by two faculty members specializing in marine and terrestrial (forest) ecosystems, respectively.
18223	Forest Resources and Biomass	Fall Semester	INTENSIVE	ANDO Keisuke	This course is a 2-day field trip on forest products and timber engineering (wood processing and wooden construction). We will visit a factory of modern housing company, an ancient wooden bridge Saruhashi(monkey bridge), constructed 1300 years ago, forests at Mt. Fuji, Narusawa village, and the Fujisan World Heritage Center.
18224	Forest Ecology and Management	Fall Semester	INTENSIVE	MATSUMOTO Takeshi	This class will focus on forest community structure, biology, function, and properties of forested ecosystem. We will learn about basic ecological processes and biology for the formation of current forested landscape. We also focus on impact of timber harvesting on ecological and biological consequences. Topics related to current knowledge for mitigation the impacts and develop sustainable forest management can be included. Discussions can also be extended to theories and practices for wildlife management, biodiversity, soil conservation, and water and biogeochemical cycling. This course will be consisted by one-day field class and in-classroom lectures and discussions.
18225	Japanese Language and Culture	Fall Semester	INTENSIVE	ITO Natsumi	This course is designed for students with little or no experience studying Japanese. It helps learners acquire basic communication skills needed in Japanese academic life during their stay in Japan. The participants are also expected to gain general knowledge of Japan and develop skills for further study in Japanese. The course includes group work and activities to share thoughts and experiences in Japanese.
18226	Experiment Course on Food and Animal Science	Fall Semester	INTENSIVE	YOKOMORI Kayo	field experiment in food and animal science fields. They will gain basic skills of experiment and data analysis through this course.

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Code	Course title	Semester	Quarter	Main Instructor	Course description
18227	Experiment Course on Agro-Environmental Science	Fall Semester	INTENSIVE	YOKOMORI Kayo	In this course, students will exercise basic laboratory/field experiment in agricultural and environmental science fields. They will gain basic skills of experiment and data analysis through this course.
18235	Ecology in Crop Production	Fall Semester	INTENSIVE	TBD	It is very important to understand crop ecology in order to improve crop production. In this course, ecology lying behind crop production is discussed. Students will be required to give several presentations in English.
18239	Theory and Practices of Sustainable Agriculture	Fall Semester	INTENSIVE	YAMADA Masaaki	This course provides basic concepts, theories and backgrounds of sustainable agriculture (SA) with a special focus on agroforestry systems. Participants study the cases of SA in various countries in Asia, Africa and Latin America to share and exchange ideas how to apply the case studies for agricultural development in participants' countries.
18245	Arid Land Agriculture	Fall Semester	INTENSIVE	KAWABATA Yoshiko	The goal of this course is to understand the problems of arid land, Arid land take up 41.3% of the land surface. The total arid lands population is 2.1 billion, 36% of global population. Desertification is one of the environmental problem in the world. In this class, we introduce the characteristic and importance of agriculture in arid land. It is understood the agriculture in arid land and desertification. Students will discuss the results and learn how to start doing independent research of arid land agriculture. This course is offered in English.
18246	Basic Meteorology and Natural Disasters	Fall Semester	INTENSIVE	SHIRAKI Katsushige	Students learn the features and characteristics of natural disaster. Students learn the basics of meteorology and soil mechanics which are needed to understand the natural disaster.
18247	Overview of Japan (Faculty of Agriculture)	Fall Semester	INTENSIVE	YOKOMORI Kayo	This class provides an AIMS students (International students) only. The series of sessions provide the students information and knowledge about Japanese life, culture, business etc to help them study and communicate with Japanese people successfully. It also helps to settle down in Japan.
18248	Assessing water-related challenge at the global scale	Fall Semester	INTENSIVE	BOULANGE JULIEN ERIC STANISLAS	This course introduces the fundamentals of climate change and its impacts on water systems. Reports from the IPCC and the World Bank, together with recent peer-reviewed research, are used to illustrate approaches to climate change impact analysis. The course focuses on key water-related challenges, including water scarcity, flood risk, and drought assessment.
18249	Introduction to International Cooperation	Fall Semester	INTENSIVE	YOKOMORI Kayo	We will focus on international development and assistance centered on official development assistance (ODA) provided by the government, and recent international peace cooperation. The current situation and major issues will be explained with specific examples. Simultaneously, through group discussion, students will proactively search for solutions to global problems and think about international cooperation.
18250	Tropical Agriculture	Fall Semester	INTENSIVE	KATO Tasuku	Invited professors give short lectures. Topic is related on Agricultural Environment and Rural Development.
18251	Application of Natural Product	Fall Semester	INTENSIVE	MORI Mihoko	Secondary metabolites are generally defined as small organic molecules produced by an organism that are not essential for their growth, development and reproduction. Their chemical structures are highly diverse and exhibit a variety of biological activities. Some of these active compounds are also utilized in our daily life. In this class, we will learn about some natural compounds from the perspectives of chemistry and biology.