

(United Graduate School of Agricultural Science)

This is for your reference only.

| Code | Course title | Semester | Quarter | Main Instructor | Course description |
|-------|--|---------------|-------------|-----------------------|---|
| 96002 | Comprehensive Agricultural Science(in English) | Fall Semester | 3rd Quarter | KATO Tasuku | Introduction and outline of the studies and its applications on a wide range of agricultural science, which is studied in the major fields of United Graduate School of Agricultural Science, is presented by using multi point control distant lecturing system, the network system connects 17 universities across Japan. Each lecture is 90 minutes long, and 12 lectures will be given in 3 consecutive days. The lecture will be held in universities of united graduate school of agricultural science (Ibaraki University, Utsunomiya University, and TUAT.) at same time, so students will be able to take the lecture at their own university. The lecture will be given in English for Comprehensive Agricultural Science II. The title and the teacher of each lecture will be informed later. If you are going to register this subject, please submit the registration form before the deadline. |
| 96004 | English Seminar on Academic Communications(in English, at Ibaraki University) | Fall Semester | 3rd Quarter | MORI Yoko | <ul style="list-style-type: none"> ●Major Learning Objectives: Improve academic communication in English. Learning to communicate as an academic using the four basic skills of English naturally while also being conscious of the differences in cultural backgrounds and TPO. ●Place within the curriculum: The goal is to empower researchers to be able to disseminate information on their research while also gathering information in a global environment through smooth and accurate communication. This is an all-English, small group course to improve English skills for academic purposes in a global environment. |
| 96005 | English Seminar on Academic Communications(in English, at Utsunomiya University) | Fall Semester | 3rd Quarter | KIDD JOSHUA ALEXANDER | This is an English course that incorporates content from the students' academic disciplines with a focus on building academic presentation and writing skills. Students will work independently, in pairs, and in small groups to enhance their presentation and academic writing skills. Using content from their specialized fields of study, students will focus on (1) presentation skills, (2) constructing and delivering poster presentations, (3) constructing and delivering effective presentations, (3) participating in Q&A sessions, and (5) writing a proposal, reference list and basic academic report. Students are expected to prepare for classes by completing assigned exercises and assignments. |
| 96006 | English Seminar on Academic Communications(in English, at TUAT) | Fall Semester | 3rd Quarter | ONWONA-AGYEMAN Siaw | This course is designed to provide graduate students with numerous opportunities to use English in scientific communication. The ultimate goal is to train students to write reports based on their own research work and to communicate with other researchers and scientists in English. To achieve this goal, students will be required to read and discuss sample publications. In addition to the topics below, there will also be discussions on global issues to broaden the knowledge of students interested in working in an international organization. There will also be discussions on the search for sustainable ways of utilizing natural resources to satisfy our 5F (Food, Fiber, Feed, Fuel, and Fertilizer) needs. |
| 96012 | Special Lecture for Innovation Advancement IV | Fall Semester | 3rd Quarter | OTSU Naoko | <p>The series of "Special Lectures for Innovation Advancement I - V" is an opportunity for the students to consider and learn about the processes, examples, and abilities necessary to connect ideas based on research and science to the real society, to initiate innovation, and to create and establish new value. The course is offered to first through third year doctoral students.</p> <p>The course theme: "Global Communication" Now is the time for research to form teams that transcend race, nationality, gender, occupation, and field of study, and to communicate and develop globally. In this lecture, students will learn the skills necessary to form and lead a team as a doctoral global leader. This course will be held in English.</p> |

(United Graduate School of Agricultural Science)

This is for your reference only.

| Code | Course title | Semester | Quarter | Main Instructor | Course description |
|-------|--|-----------------|-------------|-----------------|---|
| 96013 | Special Lecture for Innovation Advancement V | Fall Semester | 3rd Quarter | OTSU Naoko | <p>The series of "Special Lectures for Innovation Advancement I - V" is an opportunity for the students to consider and learn about the processes, examples, and abilities necessary to connect ideas based on research and science to the real society, to initiate innovation, and to create and establish new value. The course is offered to first through third year doctoral students.</p> <p>The course theme: "Agriculture, environment, and energy in the world" In order to be an innovative and global Ph.D. holder, you should know the real situation in the world.</p> <p>In this course, students learn the situation, challenges, and counter actions in agriculture, environment, and energy of the world through the lectures by people working globally. This will be an opportunity for the students to consider how they can locate their research in the world, how they can utilize them, and also reevaluate their thinking whether they are truly objective and scientific. Students also train their abilities of communication, discussion, and debate in English.</p> |
| 96015 | Global Special Seminar I (Common) | Fall Semester | 3rd Quarter | TBD | The lecture will focus on irrigation and drainage management for agricultural production and environmental conservation, especially in paddy field agriculture. In particular, FAO's CSA (Climate-Smart Agriculture), which integrates productivity and adaptation and mitigation measures under climate change, will be cited and the lecture will be based on it. |
| 96016 | Global Special Seminar II (Common) | Fall Semester | 3rd Quarter | TBD | The history of agriculture is said to be a battle against arthropod pests. This lecture deals with the components of Integrated Pest Management (IPM), which is becoming a fundamental principle in arthropod pest management (e.g., physical, chemical, and biological control), including their effectiveness and challenges. |
| 96017 | Global Special Seminar III(Common) | Fall Semester | 3rd Quarter | TBD | <ul style="list-style-type: none"> We will learn the technical significance and methods of reducing the environmental burden of crop production technology through local cases. This is a lecture course to acquire a high degree of specialized ability in the field of bio-production science by learning the latest knowledge and technology in agricultural science. In class, I will make it easier for students with different fields to imagine by using photographs and practical cases. |
| 96018 | Global Special Seminar IV(Common) | Spring Semester | 1st Quarter | KATO Tasuku | <p>This course will be held in person at Tokyo University of Agriculture and Technology.</p> <p>"Research on Irrigation and Water Environment"</p> <p>This course focuses on water resource management and environmental conservation in paddy fields. We will discuss hydrological modeling methods, monitoring data analysis techniques, and water use efficiency.</p> <p>Furthermore, we will discuss the applicability and limitations of remote sensing and machine learning models, and their application to site-specific and scalable analyses. Finally, we will consider practical implementation methods, including indicators and management strategies for sustainable and adaptable irrigation systems.</p> |
| 96414 | Advanced Bio-environmental Control | Fall Semester | 3rd Quarter | YASUNAGA Eriko | <p>Fresh fruits and vegetables continue physiological activities such as respiration and metabolism after harvest, leading to quality deterioration during storage and distribution. Such deterioration is one of the major causes of food loss in fresh produce supply chains and is closely related to global food security and sustainable food systems.</p> <p>This course introduces the scientific basis of postharvest quality management of fresh produce. Topics include physiological mechanisms of postharvest quality changes, the effects of distribution environments such as temperature, gas composition, and mechanical stress, and methods for evaluating and controlling product quality.</p> <p>In addition, research approaches that integrate environmental monitoring and quality evaluation to predict and control quality deterioration will be discussed. In the discussion session, students will examine strategies to reduce food loss in fresh produce supply chains and develop ideas for research or technological solutions.</p> |

| Code | Course title | Semester | Quarter | Main Instructor | Course description |
|-------|---|-----------------|-------------|-----------------|--|
| 99221 | Global Special Seminar I | Fall Semester | 3rd Quarter | TBD | The lecture will focus on irrigation and drainage management for agricultural production and environmental conservation, especially in paddy field agriculture. In particular, CSA (Climate-Smart Agriculture) proposed by FAO, which integrates productivity and adaptation and mitigation measures under climate change, will be cited and the lecture will be based on it. |
| 99222 | Global Special Seminar II | Fall Semester | 3rd Quarter | TBD | The history of agriculture is said to be a battle against arthropod pests. This lecture deals with the components of Integrated Pest Management (IPM), which is becoming a fundamental principle in arthropod pest management (e.g., physical, chemical, and biological control), including their effectiveness and challenges. |
| 99223 | Global Special Seminar III | Fall Semester | 3rd Quarter | TBD | <ul style="list-style-type: none"> We will learn the technical significance and methods of reducing the environmental burden of crop production technology through local cases. This is a lecture course to acquire a high degree of specialized ability in the field of bio-production science by learning the latest knowledge and technology in agricultural science. In class, I will make it easier for students with different fields to imagine by using photographs and practical cases. |
| 99224 | Global Special Seminar IV | Spring Semester | 1st Quarter | KATO Tasuku | <p>This course will be held in person at Tokyo University of Agriculture and Technology.</p> <p>"Research on Irrigation and Water Environment"</p> <p>This course focuses on water resource management and environmental conservation in paddy fields. We will discuss hydrological modeling methods, monitoring data analysis techniques, and water use efficiency.</p> <p>Furthermore, we will discuss the applicability and limitations of remote sensing and machine learning models, and their application to site-specific and scalable analyses. Finally, we will consider practical implementation methods, including indicators and management strategies for sustainable and adaptable irrigation systems.</p> |
| 99227 | Special Lecture for Innovation Advancement IV for Program student | Fall Semester | 3rd Quarter | OTSU Naoko | <p>The series of "Special Lectures for Innovation Advancement I - V" is an opportunity for the students to consider and learn about the processes, examples, and abilities necessary to connect ideas based on research and science to the real society, to initiate innovation, and to create and establish new value. The course is offered to first through third year doctoral students.</p> <p>The course theme: "Global Communication"</p> <p>Now is the time for research to form teams that transcend race, nationality, gender, occupation, and field of study, and to communicate and develop globally. In this lecture, students will learn the skills necessary to form and lead a team as a doctoral global leader.</p> <p>This course will be held in English.</p> |
| 99228 | Special Lecture for Innovation Advancement V for Program student | Fall Semester | 3rd Quarter | OTSU Naoko | <p>The series of "Special Lectures for Innovation Advancement I - V" is an opportunity for the students to consider and learn about the processes, examples, and abilities necessary to connect ideas based on research and science to the real society, to initiate innovation, and to create and establish new value. The course is offered to first through third year doctoral students.</p> <p>The course theme: "Agriculture, environment, and energy in the world"</p> <p>In order to be an innovative and global Ph.D. holder, you should know the real situation in the world.</p> <p>In this course, students learn the situation, challenges, and counter actions in agriculture, environment, and energy of the world through the lectures by people working globally. This will be an opportunity for the students to consider how they can locate their research in the world, how they can utilize them, and also reevaluate their thinking whether they are truly objective and scientific. Students also train their abilities of communication, discussion, and debate in English.</p> |