

Course	Introduction of Agro-Biomedical Science
Course No.	
Credits	1 Credit
Grade	1 Year
Timetable	Fall AB Friday 6
Instructor	Yoshito Kumagai, Masao Ichikawa, Masayuki Matsumoto, Kazuya Morikawa, Ryosuke Ohniwa, Yuichi Yamaoka, Yutaka Kitamura, Hiroshi Ezura, Chiaki Matsukura, Juichi Peter Abe, Dominique Rolin, Thierry Noël, Michel Hernould, Catherine Bennetau, Ming-Ju Chen, Suming Chen, Chang-Chuan Chan, Hsinyu Lee, Han-Yi E. Chou, Tang-Long Shen, Tsai-Kun Li
Course Overview	"Food" and "Health," two issues central to human existence, are inseparable in their relationship. Food-related health problems and lifestyle-related diseases, threats to food security, and the increasing cost of medical care are just some of the many challenges society now faces. In this course, students will study the scientific fundamentals to understand such Food and Health issues, especially focusing on "Relationship between Food and Health", "Health Security", and "Food Security". Students will learn the current issues surrounding genetically-modified (GM) crops and its regulation in domestic / overseas including GM-food stuffs. The global view of "Health and Food related issues" will be given by the instructors from University of Tsukuba as well as University of Bordeaux and National Taiwan University.
Remarks	Conducted in English. For students of International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health.
Course Type	Lectures
Link between Course Objectives and Activities	Students will acquire fundamental knowledge relating to food security, health security, the connection between food resources and health, and contemporary global issues related to food and health.
Academic Goal	<ol style="list-style-type: none"> 1. Students will be able to explain/describe global issues related to food and health. 2. Students will be able to explain/describe food security and related concepts. 3. Students will be able to explain/describe health security and related concepts. 4. Students will be able to explain/describe the connection between food resources and health. 5. Students will be able to consider the connection between the coursework and their Comprehensive Report on Integrated Themes and career pathway.
Course Schedule	<ol style="list-style-type: none"> 1. General Overview: What Is Agro-Biomedical Science? (Yoshito Kumagai, Yuichi Yamaoka) 2. Food Security I: (Hiroshi Ezura, Chiaki Matsukura) 3. Health Security I: (Masao Ichikawa, Masayuki Matsumoto, Kazuya Morikawa) 4. Food Resources and Health I: (Yutaka Kitamura, Junichi Peter Abe, Ryosuke Ohniwa) 5. Food Security II: ((Ryosuke Ohniwa), Ming-Ju Chen, Suming Chen) 6. Health Security II: ((Ryosuke Ohniwa), Chang-Chuan Chan, Hsinyu Lee, Han-Yi E. Chou) 7. Food Resources And Health II: ((Ryosuke Ohniwa), Tang-Long Shen, Tsai-Kun Li) 8. Food Security III: ((Chiaki Matsukura), Catherine Bennetau) 9. Health Security III: ((Chiaki Matsukura), Thierry Noël, Michel Hernould) 10. Food Resources and Health III: ((Chiaki Matsukura), Dominique Rolin)
Course Prerequisites and Advisories	
Grading Philosophy (Percentage/ Criteria/ Methodology)	<p>Students are evaluated by their class participation and report assignments. A passing grade ("C" or greater) requires students to sufficiently show an understanding of global issues in food and health from their report assignments. A "B" grade may be awarded to students who, in addition to this, show a thorough understanding of issues in food security and health security from their report assignments. Furthermore, an "A" grade may be awarded to students who, in addition to these, show to be consistently participative in class through questions and discussion, and show that they are able to connect their classwork with their Comprehensive Report on Integrated Themes and career pathway planning.</p> <p>The deadline of the report submission is two weeks after the last lecture.</p>
Self-Directed Learning	Complete reports as assigned

Other Than Coursework	
Textbooks, References and Supplementary Materials	Distributed or introduced by instructors in the class
Office Hours	Name: Yoshito Kumagai E-mail: yk-em-tu@md.tsukuba.ac.jp By appointment only
Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	
Keywords	Agro-Biomedicine, Food Security, Health Security