

Course	Introduction of Agro-Biomedical Science
Course No.	01ER101
Credits	1 Credit
Grade	1 <sup>st</sup> Year
Timetable	Summer Vacation (Intensive)
Instructor	Yoshito Kumagai, Masao Ichikawa, Kazuya Morikawa, Ryosuke Ohniwa, Yasuhiro Shinkai, Zheng Ling, Yuichi Yamaoka, Yutaka Kitamura, Hiroshi Ezura, Chiaki Matsukura, Kiyokazu Ujiie, Juichi Peter Abe, Lombardo Fabien Claude Renaud, Dominique Rolin, Thierry Noel, Michel Hernould, Catherine Bennetau, Pierre Pétriacq, Ming-Ju Chen, Suming Chen, Chang-Chuan Chan, Chau-Ti Ting, Han-Yi E. Chou, Tang-Long Shen, Tsai-Kun Li, Chih-Kang Chiang
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". 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"> <li>1. Students will be able to explain/describe global issues related to food and health.</li> <li>2. Students will be able to explain/describe food security and related concepts.</li> <li>3. Students will be able to explain/describe health security and related concepts.</li> <li>4. Students will be able to explain/describe the connection between food resources and health.</li> <li>5. Students will be able to consider the connection between the coursework and their Comprehensive Report on Integrated Themes and career pathway.</li> </ol>
Course Schedule	<ol style="list-style-type: none"> <li>1. General Overview: What Is Agro-Biomedical Science? (Yoshito Kumagai, Yuichi Yamaoka)</li> <li>2. Food Security I: (Hiroshi Ezura, Chiaki Matsukura, Lombardo Fabien Claude Renaud)</li> <li>3. Health Security I: (Masao Ichikawa, Kazuya Morikawa, Yasuhiro Shinkai, Zheng Ling)</li> <li>4. Food Resources and Health I: (Yutaka Kitamura, Kiyokazu Ujiie, Junichi Peter Abe, Ryosuke Ohniwa)</li> <li>5. Food Security II: ((Ryosuke Ohniwa), Ming-Ju Chen, Suming Chen)</li> <li>6. Health Security II: ((Ryosuke Ohniwa), Chang-Chuan Chan, Chau-Ti Ting, Han-Yi E. Chou)</li> <li>7. Food Resources And Health II: ((Ryosuke Ohniwa), Tang-Long Shen, Tsai-Kun Li, Chih-Kang Chiang)</li> <li>8. Food Security III: ((Chiaki Matsukura), Catherine Bennetau, Pierre Pétriacq)</li> <li>9. Health Security III: ((Chiaki Matsukura), Thierry Noel, Michel Hernould)</li> <li>10. Food Resources and Health III: ((Matsukura), Dominique Rolin)</li> </ol>

Course Prerequisites and Advisories	
Grading Philosophy (Percentage/ Criteria/ Methodology)	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. The deadline of the report submission is two weeks after the last lecture.
Self-Directed Learning Other Than Coursework	Complete reports as assigned
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 Student needs to make an appointment in advance.
Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	
Related Courses	
Keywords	Agro-Biomedicine, Food Security, Health Security