

Course	Fusion of Field and Laboratory Studies
Course No.	01ER404
Credits	3 credits
Grade	1 st year
Timetable	Spring AB
Instructor	Prof. Hsinyu Lee, Prof. Tsai-Kun Li, Prof. Chang-Chuan Chan, Prof. Ming-Ju Chen, Prof. Tang-Long Shen, Prof. Han-Yi E. Chou
Course Overview	In this course, students plan and implement field practicum related to Food and Health and identify social and natural environment-related issues/challenges in R & D. Students implement their own R&D based on the issues/challenges they have identified in the field and worked on in the lab while regularly holding discussions with course faculty. Combined practicum time in the field and laboratory is 90 + hours. Student must submit the report of research progress which will be evaluated by the instructor who hosts the student.
Remarks	Conducted in English at National Taiwan University
Course Type	Practical training and experiment
Link between Course Objectives and Activities	To nurture the fundamentals for Agro-Biomedical Science such as ability to connect health and food resources, Abilities to connect engage in issues related health security, and ability to engage food security, through attending field and laboratory practices hosted by instructors.
Academic Goal	<ol style="list-style-type: none"> 1. Students will be able to plan and implement their field practicum work related to Food and Health; 2. Students will be able to identify social and natural environment-related issues/challenges in R & D from their field practicum experience; 3. Students will be able to plan and implement R & D with the potential to accommodate the identified issues/challenges; 4. Students will be able to hold discussions with faculty and related persons about their ideas for their implementation plan; 5. Students will be able to demonstrate the abilities for project management needed to connect the multifaceted issues that arise.
Course Schedule	<p>Students need to attend at least 10 times seminar hosted by the following instructors. Student can chose the number of instructors if necessary. Students have to present at least one article selected by themselves in the 10 times seminar.</p> <p>Theme 1: Signal Transduction (Prof. Hsinyu Lee) Theme 2: Drug and health food product development (Prof. Tsai-Kun Li) Theme 3: Environmental Epidemiology and Global Health (Prof. Chang-Chuan Chan) Theme 4: Animal-based foodstuff (Prof. Ming-Ju Chen) Theme 5: Applied microbiology (Prof. Tang-Long Shen) Theme 6: Stem cell and nanobiotechnology (Prof. Han-Yi E. Chou)</p>
Course Prerequisites and Advisories	For Master's program in Agro-Biomedicine (GIP-TRIAD). For the 2 nd semester. To register in this course, please first contact the instructor in charge of the seminar.
Grading Philosophy (Percentage/ Criteria/ Methodology)	<p>Class participation (50%), presentation and discussion about the paper (25%), and report (50%).</p> <p>Report theme is "Summary of the paper you introduce (one paper is enough), and its relation with global topics in Food and Health".</p> <p>Students need to attend at least 80% of classes for getting grade C.</p> <p>Grading Criteria is A+(Superior), A(Excellent), B(Good), C(Average) and D (Failure).</p>
Self-Directed Learning Other Than Coursework	Address assignments introduced by instructors in class room.
Textbooks, References and Supplementary Materials	To be introduced by Instructors in class room.

Fusion of Field and Laboratory Studies
フィールドと実験室の融合（台湾）
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Office Hours	Name: Prof. Hsinyu Lee E-mail: hsinyu@ntu.edu.tw Name: Prof. Tsai-Kun Li E-mail: tsaikunli@ntu.edu.tw Name: Prof. Chang-Chuan Chan E-mail: ccchan8082@gmail.com Name: Prof. Ming-Ju Chen E-mail: cmj@ntu.edu.tw Name: Prof. Tang-Long Shen E-mail: shentl@ntu.edu.tw Name: Prof. Han-Yi E. Chou E-mail: hyechou@ntu.edu.tw By Appointment Only
Other (i.e. Expectations on Classroom, Conduct and Decorum etc.)	In the seminar, students are expected to join in the discussion.
Related Courses	Research and Development for Agro-Biomedical Science II (NTU), Agro-Biomedical Science Laboratory Seminar I (UT), International Scientific Seminars (UB)
Keywords	Field Practice, Lab Practice, Paper presentation, Paper discussion,