Subject Name:

Fusion of Field and Laboratory Studies

Course No.: @@@

Course Type: Practical training and experiment

Credit: 3

Outline:

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.

Grade, Time Table and Credit:

Subject	*Year*	*Semester*	*Day/Period*	*Credit*
Fusion of Field and Laboratory Studies	1	Spring	Intensive	3

Location:

National Taiwan University (NTU)

Instructor Information

Students need to study the subject under at least one 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

Link between Course Objectives and Activities:

To nurtured the fundamentals for Agro-Biomedical Science such as ability to connect heath and food resources, Abilities to connect engage in issues related health security, and ability to engage food security, through attending laboratory practices hosted by instructors.

Academic Goal:

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:

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.

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)

Course Prerequisites and Advisories:

For Master's program in Agro-Biomedicine (GIP-TRIAD). For the 2nd semester. To register in this course, please first contact the instructor in charge of the seminar.

Self-Directed Learning Other Than Coursework: Address issues introduced by instructors in the class room.

Grading Philosophy (Percentage/Criteria/Methodology):

Class attendance (50%), presentation and discussion about the paper (25%), and report (50%).

Report theme is "Summary of the paper you introduce (one paper is enough), and its relation with global topics in Food and Health".

Students need to attend at least 80% of classes for getting grade C.

Grading Criteria is A+(Superior), A(Excellent), B(Good), C(Average) and D (Failure).

Textbooks, References and Supplementary Materials:

Distributed by Instructors in class

Office Hours:

Name: Prof. Hsinyu Lee
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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: Paper presentation, Paper discussion,

Remarks: None