

Hokkaido University Syllabus

■ ■ Course Title

Inter-Graduate School Classes(Educational Program):PARE

■ ■ Subtitle

Field Work II for PARE: Populations-Activities-Resources-Environments Chain

■ ■ Instructor (Institution)

NEGISHI Junjiro ( Faculty of Environmental Earth Science )

■ ■ Other Instructors (Institution)

BOWER John Richard ( Faculty of Fisheries Sciences )  
 IGARASHI Toshifumi ( Faculty of Engineering )  
 MATSUSHIMA Hajime ( Research Faculty of Agriculture )  
 KOIKE Satoshi ( Research Faculty of Agriculture )  
 TAKEDA Ryo ( Faculty of Engineering )  
 NEGISHI Junjiro ( Faculty of Environmental Earth Science )  
 OTAKE Tsubasa ( Faculty of Engineering )

■ ■ Course Type				■ ■ Open To Other Faculties / Schools	OK
■ ■ Year	2021	■ ■ Semester	2nd Semester (Winter Term)	■ ■ Course Number	101016
■ ■ Type of Class	Experiment	■ ■ Number of Credits	2	■ ■ Year of Eligible Students	~
■ ■ Eligible Department / Class				■ ■ Other Information	
■ ■ Numbering Code	IGS_IDS 5071				
■ ■ Major Category Code	■ ■ Major Category Title				
IGS_IDS	Inter-Graduate School Classes_Inter-Disciplinary Sciences				
■ ■ Level Code	■ ■ Level				
5	Specialized Subjects (basics) in graduate level (Master's Course and Professional Course), Inter-Graduate School Classes				
■ ■ Middle Category Code	■ ■ Middle Category Title				
0					
■ ■ Small Category Code	■ ■ Small Category Title				
7					

■ ■ Language Type

Classes are in English.

■ ■ Course list by the instructor with practical experiences

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## ■ ■ Key Words

atmosphere, chemical substances, climate change, coasts, ecosystems, geochemical cycles, environments, erosion, food, geochemical cycles, geo-environment, GIS, green technology, groundwater, human activities, land, pollution, populations, poverty, resources, risk management, rivers, soil, sustainability, water, water cycle

## ■ ■ Course Objectives

The objective of this course is for students to gain the ability to understand and evaluate various issues in ASEAN countries, such as sanitary, nutritional, and environmental issues associated with the use of fossil fuels, metals, water, land, and marine resources. Student will learn about these issues through lectures and group discussions, as well as fieldwork during which the students will collect and evaluate data in Indonesia or Thailand.

The course is highly recommended for students who aspire to become researchers or technical experts engaged in the sustainable use of fossil fuels, metals, water, land and marine resources and/or who are considering a career in government, at an international organization or in a company that operates internationally.

## ■ ■ Course Goals

By the end of this course, students will be able to:

- 1) Collect data and information by sharing roles in fieldwork training with other students majoring in different disciplines/fields.
- 2) Properly evaluate and present the collected data and information
- 3) Summarize the results of the evaluation and propose a resolution in English
- 4) Self-evaluate his/her achievements in relation to goals set before the start of the course

## ■ ■ Course Schedule

The course is taught during February and/or March in Indonesia. [Note: this course is taught concurrently with "Seminar II for PARE: Population-Activities-Resources-Environments Chain"; students must enroll in both courses.]

The course comprises lectures and field work training. Lecture topics cover site information, resource management, field survey techniques, and sampling methods of sampling and measurement. The field work training includes surveying, sampling, measuring and data processing.

Summary of 2020 Spring School schedule:

- The focus area of the course was the Bang Pakong River and watershed located in western Thailand. During the first three days of the course, students attended seven lectures to learn about the river and about sampling methods.
- This was followed by three days of field work, during which water samples were collected at eight stations along the river from upstream areas to downstream areas. Various parameters were measured and analyzed.
- Next, the students attended four more lectures and a one-day lecture/exercise on GIS and land-use analysis.
- The students then returned to the field for several site visits over three days, which included conducting interviews of local residents about human activities in the watershed.

The field work includes a day trip near Sapporo.

Scheduling is based on five hours of activities/study per day.

## ■ ■ Homework

Students participate in field work, which includes data collection and analysis. There are group discussions and presentations. Each student is also required to submit a written report. In addition, at the start of the course, students briefly introduce a river ecosystem in their home countries.

Plagiarism is taking credit for someone else's work whether deliberately or unintentionally. This includes turning in all or part of a report written by someone else (e.g., a friend, an internet source) and claiming it as your own, and including information or ideas from research material without citing the source. Students who, for whatever reason, plagiarize any part of their report will receive a zero for the assignment.

## ■ ■ Grading System

Grades will be determined based on a comprehensive assessment of:

- Oral presentations: 50%
- A final report: 30%
- Class participation & learning attitude: 20%

\*Attendance percentage must be at least 80% for students to receive credit.

■ ■ Practical experience and utilization for classes

■ ■ Condition of tasking the subject

■ ■ Textbooks

テキスト・教科書指定なし。資料配布あり。No textbook required. Handouts will be distributed.

■ ■ Reading List

■ ■ Websites

■ ■ Website of Laboratory

■ ■ Additional Information

\*This course is conducted in conjunction with "Seminar II for PARE: Population-Activities-Resources-Environments Chain "; students must enroll in both courses.

■ ■ Update

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