

Class Schedule for Spring, 2022

Course Title		Time & Date	Venue	Presenters	1. Class Name 2. Code in Google Classroom
Orientation for New Students		15:10-18:00, April 9	Project Space, 3F Agora Global (TUFS) + Zoom	Self-introduction by Current and New Students	
Sustainability	1	13:30-15:00, April 9	Same as above	All Oct-2020 & Apr-2021 (D2) students will give presentations on either day of April 9 or July 2.	
Research	2	9:00-16:00 July 2	226 (Lecture and Research Bld. TUFS) +Zoom		
Advanced Practicum	3	10:00-14:00 July 16	115 (Lecture and Research Bld. TUFS) +Zoom		
Foundations of Sustainability Research A	1	9:00-16:00 April 16	508 (Lecture and Research Bld. TUFS) +Zoom	See page 23.	
	2	9:00-16:00 May 7	Same as above	See page 23.	
	3	9:00-16:00 May 14	Same as above	See page 23.	
	4	9:00-16:00 June 4	Same as above	See page 23.	
	5	9:00-16:00 June 18	Same as above	See page 23.	
	6	9:00-16:00 July 2	Same as above	See Sustainability Research Advanced Practicum.	
Workshops / Interdisciplinary Seminars	1	16:10-18:10 April 16	Same as above	Applicants who would like to give a presentation; 1. Consult with your supervisors. 2. Email Prof. Takeuchi no later than two weeks before the desired workshop day.	
	2	16:10-18:10 May 7	Same as above		
	3	16:10-18:10 May 14	Same as above		
	4	16:10-18:10 June 4	Same as above		

Course Title	Provided by		Time & Date	Venue	1.Class Name 2.Code in Google Classroom
Academic Literacy / Interdisciplinary Seminars	TUFS	1	17:40-19:10 Tue April 12	Zoom	
		2	17:40-19:10 Tue April 26		
		3	17:40-19:10 Tue May 17		
		4	17:40-19:10 Tue June 7		
		5	17:40-19:10 Tue June 21		
		6	17:40-19:10 Tue July 5		
	TUAT	1	17:40-19:10 Thu May 12	Zoom	
		2	17:40-19:10 Thu May 19		
		3	17:40-19:10 Thu May 26		
		4	17:40-19:10 Thu June 2		
		5	17:40-19:10 Thu June 9		
		6	17:40-19:10 Thu June 16		
	UEC	1	18:00-19:30 Mon July 4	Zoom	
		2	18:00-19:30 Wed July 6		
		3	18:00-19:30 Fri July 8		
		4	TBA	Hybrid	
		5	TBA		
		6	TBA		

Note 1: **Foundations of Sustainability Research A** is mandatory only for Oct- 2021 and Apr-2022 students. But all students are always welcome to join, if they like.

Note 2: **Sustainability Research Advanced Practicum I, II, III and IV** for 2022-April, 2021-October, 2021-April, and 2020-October entrant, respectively, are mandatory.

Note 3: **Interdisciplinary Seminars** consist of the three parts noted below: For more details, please see P24.

1) Tutorial under triplet research supervision scheme

2) Workshop

3) Academic Literacy provided by every three University so that students can acquire the basic skills and practical knowledge required succeed at the university level.

Note 4: **Academic Literacy** is mainly for the first year students, but all students are also welcome if they like.

Course Description

■ **Foundations of Sustainability Research A**

The lectures aim to enable students to comprehensively and systematically acquire the basic knowledge needed in the Joint Doctoral Program for Sustainability Research. In particular, the lectures are aimed at cultivating a sense that serves as the foundation of ethical and pluralistic ways of thinking called for in international settings. The students learn about SDGs, global issues, and intellectual properties.

■ **Foundations of Sustainability Research B**

The course aims to enable students to practically and cooperatively acquire skills in communicating (writing) and applying basic theories and analysis method, which are necessary in articulating ethical and pluralistic ways of thinking called for in international settings and are needed in the Joint Program. In particular, the course trains students to master and practice effective English writing techniques and basic theories and analysis methods, which can be used in formulating and implementing internationally acceptable international development strategies and plans.

Lecture Schedule-Foundations of Sustainability Research A

1. 16 April Foundations of Sustainability Research A(1)
 - 09:00-12:00 Shinichi Takeuchi (TUFS): Context and Backgrounds of SDGs
 - 13:00-16:00 Atsushi Chitose (TUAT): Targets and Examples of Sustainability Research
2. 7 May Foundations of Sustainability Research A(2)
 - 09:00-12:00 Atsushi Chitose and Yoshihiro Nomura (TUAT): Human Development, Food, Resources and Energy
 - 13:00-16:00 Chikako Nakayama (TUFS): Economy and Ecology: Theories of Endogenous Development
3. 14 May Foundations of Sustainability Research A(3)
 - 09:00-12:00 Kazue Demachi (TUFS): Analyzing the Relationships between Natural Resources and Society
 - 13:00-16:00 Miwa Yamada (IDE-JETRO): "Business and Human Rights": What are the roles of state, business and civil society?
4. 4 June Foundations of Sustainability Research A(4)
 - 09:00-12:00 Kimiaki Suzuki (Tokyo University of Science): Intellectual Property for Sustainability
 - 13:00-16:00 Kayoko Yamamoto (UEC): Environmental Problems and Disaster Resilience
5. 18 June Foundations of Sustainability Research A (5)
 - 09:00-12:00 Yoshiko Kawabata (TUAT): Water Resources in Drylands
 - 13:00-16:00 Junji Hashimoto (Aqua Sphere): Fieldwork
6. 2 July Foundations of Sustainability Research A (6)
 - 09:00-16:00 Student Presentations (2020-Oct and 2021-Apr (D2) Entrants)

■ Interdisciplinary Seminar I & II

Students attend tutorial under a triplet research supervision scheme: one academic principal supervisor and two supervisors. The course is aimed at enhancing core competency in the doctoral dissertation research field and at enabling students to explain the purpose and significance of their research in relation to current research trend, through discussions with the academic principal supervisor. In addition, the course trains students in each aspect of research, namely, comprehension, analysis, and implementation, which require a higher level of competency, through discussions with supervisors. The course helps students acquire consensus-building skills and the capacity to adapt to diverse value systems and environments, while leveraging new ideas, knowledge, and information obtained through meaningful academic exchanges with researchers not only in their specialized fields but also from other disciplines, into the design of their doctoral dissertation research.

Interdisciplinary seminars consist of the three parts noted below:

©Tutorial under Triplet Research Supervision Scheme

Students take seminars tutorially by academic principal supervisor. While holding regular seminars with an academic principal supervisor, students attend seminars provided by supervisor or laboratory work.

©Workshop

The workshop is held after lecture of Foundations of Sustainability Research. Students report and hold Q&A on their doctoral dissertation research concepts. Possible dates for the workshop will be 16 April, 7 May, 14 May, and 4 June. Students will make a decision to give a presentation after consulting with academic principal supervisor.

©Academic Literacy provided by three Universities

The lecture trains students that enable to acquire the basic skills and practical knowledge required at the university level. Please consult with your academic principal supervisor.

¶Academic Literacy Seminar provided by TUFSS

Venue : Zoom
Subject : English Discussion Training Class
Instructor : SUZUKI, Steven Taro

Summary and goals of the course :

The course is designed to improve presentation skills in academic and professional contexts. In order to achieve this goal, higher-level intellectual skills will be developed and improved through engaging in, and performing various tasks and discussions. A natural by-product will be students improving their analytical, rhetorical, and critical thinking skills. These skills are abstract and difficult to measure; however, they are important in terms of being able to collaborate and cooperate effectively with colleagues, superiors, subordinates, and clients in future professions.

Overview of the course :

Students will focus on learning important skills for presenting at professional conferences, and also how to adroitly handle Q&A sessions. A short presentation will be conducted by each student in every class. The presentations will start on a basic level, and will increase in analytical and rhetorical difficulty as the course progresses. The course will conclude with a basic full length presentation with a Q & A session performed by each student.

Schedule : (17:40-19:10)

- 1) Tuesday 12 April Discussion Skill Training in English 1
- 2) Tuesday 26 April Discussion Skill Training in English 2
- 3) Tuesday 17 May Discussion Skill Training in English 3
- 4) Tuesday 7 June Discussion Skill Training in English 4
- 5) Tuesday 21 June Discussion Skill Training in English 5
- 6) Tuesday 5 July Discussion Skill Training in English 6

TUFS English Learning Center (ELS)

All JDPSR students are eligible for participating programs offered by TUFS English Learning Center (ELC) to enhance their autonomous English learning. ELC provides four programs: speaking, writing, e-Learning, and English library. To join the speaking and writing session, it needs to make a reservation at the center. For more details, please refer to the link below with which they can learn how to use the center.

English Learning Center (ELC):

Room 304, Research and Lecture Building, TUFSS

Phone: 042-330-5416

E-mail: tufs-elc@tufs.ac.jp

Website: <https://mdle.tufs.ac.jp/elc/public/students/>

¶Academic Literacy Seminar provided by TUAT

Google Classroom: Class code lc4uo7j

Subject : Basic Statistics

Instructor : CHITOSE, Atsushi

Summary and goals of the course :

The objectives of this course are i) to acquire basic skills of statistical analysis and correct knowledge in dealing with statistics; and ii) to know how to perform basic statistical tests and interpret their results using the Excel worksheets.

Overview of the course :

This course will be provided online on Thursday evening in May and June. In each class, students will be given the instruction regarding a special topic by the instructor, followed by the practice for statistical analysis using “Function” and/or “Analysis ToolPak” of Excel.

Note : Please prepare your own PC, in which Microsoft Excel has been installed.

Schedule : (17:40-19:10)

- 1) Thursday, May 12 Descriptive Statistics 1) Univariate case
- 2) Thursday, May 19 Descriptive Statistics 2) Bivariate case
- 3) Thursday, May 26 Inferential Statistics 1) Statistical distribution, t-test
- 4) Thursday, June 2 Inferential Statistics 2) Hypothesis testing (t-test, F-test)
- 5) Thursday, June 9 Inferential Statistics 3) Hypothesis testing among groups (ANOVA)
- 6) Thursday, June 16 Inferential Statistics 4) Regression Analysis (OLS)

¶Academic Literacy Seminar provided by UEC

1. Subject: AI (Artificial Intelligence)

Venue: Hybrid

Overview of the course: Introduction and some practice in Machine Learning and Artificial Intelligence

Text: TBA

Schedule: TBA

Note: Bring your own PC when switching to face-to-face classes

Contact :

Prof. Hashiyama

E-mail: hashiyama.tomonori@uec.ac.jp

2. Subject : GIS (Geographic Information Systems)

Venue : Zoom

Overview of the course : Learn the basic techniques of GIS referring textbook edited by the GIS Association of Japan. (<http://www.kokon.co.jp/book/b313385.html>)

Schedule : (18:00-19:30)

- 1) Monday, July 4
- 2) Wednesday, July 6
- 3) Friday, July 8

Note : Bring your own PC when switching to face-to-face classes

Contact :

Prof. Yamamoto

Phone: 042-443-5728

E-mail: Kayoko.yamamoto@uec.ac.jp

■ Interdisciplinary Seminar III

Students report internship outcomes with attendance of an academic principal supervisor and supervisors. It should be done during the semester, between Advanced Practicum III (1) and III (2). Also, students attend laboratory works with an academic principal supervisor and supervisors as needed during the semester.

■ Interdisciplinary Seminar IV

Students attend tutorial seminars provided by academic principal supervisor and supervisors for preparing a presentation at an international conference and publication of their drafts to an international scholarly journal.

■ Interdisciplinary Seminar V

Students attend tutorial seminars on vision and structure of their drafts of dissertations.

■ Interdisciplinary Seminar VI

Students attend tutorial seminars on their dissertations.

■ Sustainability Research Advanced Practicum I-IV

Sustainability Research Advanced Practicum is organized by all the professors of the course as an occasion to discuss the participants' research outcomes intensively and interdisciplinary. Sessions are held in April and July during the 1st semester, and in October and January during the 2nd semester. The 1st and 2nd year students are obligated to attend all sessions.