

Course number		G-LAS15 80010 LE14			
Course title (and course title in English)	サステナビリティ学最前線 Frontier of Sustainability Science		Instructor's name, job title, and department of affiliation	Graduate School of Global Environmental Studies Associate Professor,MORI AKIHISA	
Group	Interdisciplinary Graduate Courses		Field(Classification)	Interdisciplinary Courses	
Language of instruction	English		Old group		Number of credits 2
Hours	30	Class style	Lecture (Face-to-face course)		Year/semesters 2024・Intensive, First semester
Days and periods	Intensive June		Target year	Graduate students	Eligible students For all majors

(Students of Graduate School of Global Environmental Studies cannot take this course as liberal arts and general education course. Please register the course with your department.)

[Overview and purpose of the course]

【研究科横断型教育の概要・目的】

This class is designed for graduate students to learn a great variety of researches conducted at the frontier of Sustainability Science. Sustainability Science is multidisciplinary research that was lately created advance sustainable development and sustainable society. This class aims to provide integrated and inter-disciplinary approaches to attain the Sustainable Development Goals (SDGs), which was set by the United Nations General Assembly as part of the Resolution "Transforming our World: the 2030 Agenda for Sustainable Development." By understanding a variety of approaches, students are expected to come up with realistic proposals that will attain at least one of the goals, without solely adhering to technological and financial solutions.

This class welcomes students from a variety of graduate schools, reserach field and backgrounds.

本講義は、サステナビリティ学という持続可能な発展・社会を実現するために新たに創設された複合的な学問領域で行われている先端の研究に関する知見を学び、実現可能な持続可能な発展や社会のビジョンを受講生1人1人が構想することを目的としている。本講義では特に、2015年9月の国連総会で採択された『我々の世界を変革する：持続可能な開発のための2030アジェンダ』と題する成果文書で示された持続可能な発展目標（SDGs）を取り上げ、それぞれの学問領域で、そしてそれらを統合して、問題や原因の同定や対応戦略・政策にどのように取り組んでいるのかを学び、そのうちの少なくとも1つの目標に関して、実現可能で技術的・資金的解決法の上に依存しない提案を作成することが期待される。

そこで、地球環境学専攻だけでなく、多様な研究科の学生の受講を歓迎する。

[Course objectives]

Students are expected to understand a variety of framing, causal effects and approaches, enhancing their capacity to propose options that can effectively attain the SDGs in a feasible manner.

持続可能な発展目標に関するに対する様々な考え方、学問分野からのアプローチを理解した上で、持続可能な発展目標を効果的に達成するオプションを提案できる能力を身につけることを到達目標としている。

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[Course schedule and contents]

Professors of five universities give lectures through distant learning system on live: i.e. University of Tokyo, Osaka University, Ibaragi University, United Nations University and Kyoto University. All the lectures and group works are given in English. Students are expected to be active in raising questions and group works that is followed by the lectures.

講義は、東京大学、大阪大学、茨城大学、国連大学、京都大学の5大学の教員がリレー式で遠隔講義システムを使って行う。その後、グループプレゼンテーションのための討議と準備を行い、各大学別にプレゼンテーションを行う。

Course outline (tentative):

Lecture 1: Introduction: What is sustainability science?

Lecture 2: Briefing SDGs

Lecture 3-7: Clean energy, climate actions, sustainable cities and innovation

Lecture 8-11: Nexus, co-benefits, partnership and vision

Lecture 12-15 Group works and presentation

[Course requirements]

Participants are required to have basic knowledge on the Sustainable Development Goals.

Be advised to check the related websites such as:

(a) SDGs Knowledge Platform: <https://sustainabledevelopment.un.org/sdgs>

(b) SDGs in UNDP: <http://www.undp.org/content/undp/en/home/sustainable-development-goals/resources/>

持続可能な発展目標に関する基本的な知見を持っていることが望まれる。特に講義前に下記のウェブサイトの文献に目を通しておくことが望ましい。

(a) SDGs Knowledge Platform: <https://sustainabledevelopment.un.org/sdgs>

(b) SDGs in UNDP: <http://www.undp.org/content/undp/en/home/sustainable-development-goals/resources/>

[Evaluation methods and policy]

- Attendance rate, including active participation to the lecture and group discussion, and performance of group presentation (40%)

- Writing assignments (60%)

平常点（グループワーク・報告への参加やそれに対する貢献も含む）：40%

講義子に提出するレポート：60%

[Textbooks]

Not used

[References, etc.]

(References, etc.)

Introduced during class

Suggested Reading lists

1. Weitz, N. et al. Towards systemic and contextual priority setting for implementing the 2030 Agenda, Sustainability Science (2018) 13: 531#821148.

2. Nilsson M. et al. Mapping interactions between the sustainable development goals: Lessons learned and

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ways forward, Sustainability Science, <https://doi.org/10.1007/s11625-018-0604-z>

3. Jianguo Liu et al. Nexus approaches to global sustainable development, Nature Sustainability (2018) 1: 466-76.

[Study outside of class (preparation and review)]

Students are expected to advance group works in between the class dates, as the class will be open for three days on Saturday, Sunday and Saturday next week.

土曜日・日曜日・翌週の土曜日の3日間で開講予定で、グループ報告を最終日に実施するため、週の間の平日もグループワークを進めることが期待される。

[Other information (office hours, etc.)]

I'll contact to applicants by email in advance to confirm their attendance and update lecture materials on the PandA.

事前にメールで出席確認と詳細の連絡を行うとともに、直前に講義資料をPandAにアップロードします。

大講義室で授業を実施します

The class will be held in Large Lecture Room at the GSGES (Building No.40).