

科目ナンバリング		U-LAS61 10014 LE17										
授業科目名 <英訳>		Introduction to Sustainable Development-E2 Introduction to Sustainable Development-E2					担当者所属 職名・氏名		エネルギー科学研究科 准教授 AU Ka Man 地球環境学舎 准教授 TRENCHER, Gregory			
群	統合科学科目群				分野(分類)		環境			使用言語		英語
旧群		単位数	2単位		週コマ数	1コマ		授業形態	講義（対面授業科目）			
開講年度・ 開講期	2024・前期		曜時限	木2			配当学年	主として1・2回生		対象学生	全学向	
【授業の概要・目的】												
Sustainable development tries to satisfy people's present needs while maintaining the ability of future generations to meet their own needs. It also requires a triple focus on environmental, economic and social aspects. In this course we will explore how nations can balance growth with environmental health. After studying about various sustainability challenges such as climate change, plastic waste, agriculture, health/ diets, energy and social capital, students will develop their own development project proposals.												
【到達目標】												
Students will gain an understanding of the core principles of sustainable development and their application through global and local case studies. At the conclusion of the course students will present their own development project proposals to the class.												
【授業計画と内容】												
This course will cover the following topics: 1.Introduction: Definition and principles of sustainable development (Trencher/Au) 2.Climate change: The science and surprising impacts (Trencher) 3.Plastic waste crisis in the oceans (Trencher) 4.Diets for a sustainable planet (Trencher) 5.Case studies in Japan and around the world - guest speakers (Trencher) 6.Sustainable road transport: The road to electrification (Trencher) 7.Natural capital (water and other resources, ecosystem services) (Au) 8.Social capital (stakeholders, cultural sustainability) (Au) 9.Energy issues (Au) 10.Business, trade and globalization, global treaties and climate change (Au) 11.Case studies in Japan and around the world - guest speakers (Au) 12.Proposal preparation (Trencher/Au) 13.Student development proposals (Trencher/Au) 14.Student development proposals and conclusion (Trencher/Au) Each of the above topics typically covers 1 class week. Specific topics may change. The course overall consists of 14 classes and one feedback session.												
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Introduction to Sustainable Development-E2(2)

【履修要件】

Enthusiasm about the topic and willingness to share ideas in class.

Must be willing to discuss in English with classmates, and to contribute to group assignments.

【成績評価の方法・観点】

Individual components:

1. Attendance and participation: 25%

2. In-class exercises and short assignments: 25%

Groupwork components

3. Project outline: 5%

4. Final presentations 20%

5. Final report: 25%

Standard scoring scale (0-100) will be applied

【教科書】

使用しない

【参考書等】

(参考書)

Richard Heinberg, Daniel Lerch 『The Post Carbon Reader: Managing the 21st Century's Sustainability Crises』 (Watershed Media) ISBN:978-0-9709500-6-2 (Not compulsory, but highly recommended.)

Rachel Carson 『Silent Spring』

Paul Ehrlich 『The Population Bomb』

John Elkington 『Cannibals with Forks』

Paul Collier 『The Bottom Billion』

Jared Diamond 『Collapse』

Meadows, Meadows and Randers 『The Limits to Growth』

Jevons 『The Coal Question』 (<https://oll.libertyfund.org/titles/jevons-the-coal-question>)

Thomas Malthus 『An Essay on the Principle of Population』 (<http://www.esp.org/books/malthus/population/malthus.pdf>)

Herman Daly 『Beyond Growth』

(関連URL)

<http://hdr.undp.org/en/content/human-development-index-hdi>(Human Development Index)

<https://sustainabledevelopment.un.org/?menu=1300>(Sustainable Development Goals)

【授業外学修（予習・復習）等】

Final presentation requires students to spend time out of class hours in preparation.

【その他（オフィスアワー等）】

Consultation is available by prior arrangement.