

<<Last Updated:2021/07/12>>

Course Schedule Information

Course Code	3B1528
Semester	Fall and Winter Term
Day and Period	Fri3
Course Name (Japanese)	特別講義 (Climate Change in Asia Pacific - Science and Solutions)
Room	
Course Name	Special Lecture: Climate Change in Asia Pacific - Science and Solutions
Capacity	20
Course Numbering Code	36CDES5U200
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	BARRETT BRENDAN FRANCIS DOMINIC

Basic Syllabus Information

Eligibility	Graduate school students, undergraduate students
Schedule	Fall and Winter Terms
Room	Course delivered online via Zoom.

Detailed Syllabus Information

Course Name	Special Lecture: Climate Change in Asia Pacific - Science and Solutions
Language of the Course	English
Type of Class	Lecture Subject
Course Objective	This course connects classrooms at university partners across Asia Pacific via videoconference. Students are introduced to the theory and practice of urban socio-technical and socio-ecological transformations. The focus is on the development of socially, ecologically and economically resilient strategies and solutions designed to respond to the mega-challenges of today including climate change and energy security. Students apply their learning through the examination of decarbonization strategies for low carbon cities in the region and explore a range of issues including the impact of sea level rise, the transition to renewable energy and climate change adaptation.
Learning Goals	Upon successful completion of the course students will be able to: Critically analyze, synthesize and reflect on recent trends and scholarly analysis of the effects and consequences of urbanization internationally, including the interplay of ecological, economic, political, social and cultural factors. Apply specialist knowledge and technical skills required to implement locally inspired solutions to a range of environmental and other consequences of urbanization.
Requirement / Prerequisite	None
Class Plan	A tentative course outline is shared below. This could be subject to change: Session 1: Course Introduction Session 2: Climate Science and Expected Impacts/Australian Bushfires of 2019/2020 Session 3: IPCC - History and Current Science Session 4: Accelerating Decarbonisation Session 5: Climate Change, Sea Level Rise and Coastal Cities & Coral Reefs Session 6: Renewable Energy in Samoa Session 7: Carbon Neutral Hawaii by 2045 Session 8: Carbon Divestment and Stranded Assets

	<p>Session 9: Climate Policy in Japan</p> <p>Session 10: Climate Change and Asian Cities</p> <p>Session 11: Student Presentations (Pecha-kucha format)</p> <p>Session 12: Water Resource Issues in the Context of Climate Change</p> <p>Session 13: Climate induced Migration</p> <p>Session 14: Post Fossil Fuel Cities</p> <p>Session 15: Student Planned Session and Course Wrap-up</p>
Independent Study Outside of Class	Students will participate in online collaborations using Zoom video conference. They will prepare a short essay on the student collaboration. They will also work in groups to prepare a presentation on the decarbonization strategy of a specific city. The final assignment will be a major essay on the implications of a pressing global problem (food security, energy, climate change) for a city of their choice in the context of urban transition theory.
Textbooks	
Reference	
Grading Policy	<p>Student Collaboration: 15%</p> <p>Short Reflection Essay (800 words): 20%</p> <p>Group Presentations: 30%</p> <p>Major Essay (1,500 words): 35%</p>
Other Remarks	The course syllabus has been jointly developed by faculty at the Osaka University Center for the Study of Co*Design, the University of Hawaii (USA), Waseda University, the University of Tsukuba and the National University of Samoa. Lectures will be delivered by faculty at these universities and by guest lecturers.
Special Note	The lectures are delivered live via video conferencing connecting Osaka University students with those at our partner universities. The video conference connection is normally established 15 minutes before each class commences. Due to Covid-19 this course will only be implemented in the online mode.
Office Hour	
Keywords	Climate change, energy, low carbon economy, Asia Pacific, urbanisation
Messages to Prospective Students	This course takes place via Zoom and you will connect individually. During the class, you will interact with the student from our partner universities. Additional informal sessions may be organized just for Osaka University students in order to discuss administrative matters or to obtain student feedback on the course, etc.

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	Fax	E-mail
Brendan F.D. Barrett	バレット ブレンドン	特任教授 大阪大学 COデザインセンター		8321		brendan.barrett@cscd.osaka-u.ac.jp
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Cautions for Students

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