Course Schedule Information

<table>
<thead>
<tr>
<th>Course Code</th>
<th>3B1528</th>
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<tbody>
<tr>
<td>Semester</td>
<td>Fall and Winter Term</td>
</tr>
<tr>
<td>Day and Period</td>
<td>Fri3</td>
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Course Name (Japanese) 特別講義（Climate Change in Asia Pacific - Science and Solutions）

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<tr>
<th>Room</th>
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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

<table>
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<tr>
<th>Eligibility</th>
<th>Graduate school students, undergraduate students</th>
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Schedule Fall and Winter Terms

Room Course delivered online via Zoom.

Detailed Syllabus Information

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<tr>
<th>Course Name</th>
<th>Special Lecture: Climate Change in Asia Pacific - Science and Solutions</th>
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<tr>
<td>Language of the Course</td>
<td>English</td>
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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
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

Student Collaboration: 15%
Short Reflection Essay (800 words): 20%
Group Presentations: 30%
Major Essay (1,500 words): 35%

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 Hawai‘i (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)

<table>
<thead>
<tr>
<th>Instructor Name</th>
<th>Name (hiragana)</th>
<th>Affiliation, Title, Course</th>
<th>Office</th>
<th>Extension</th>
<th>Fax</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Brendan F.D. Barrett</td>
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Cautions for Students