IE/IR/PO 370 GREEN GROWTH, SUSTAINABILITY AND NEW GROWTH MODELS
IES Abroad Paris BIA

DESCRIPTION: The quest to significantly decrease the use of fossil fuels spurred by concerns over energy security, high prices, and the socioeconomic repercussions of climate change is now underway across the globe. The world economic crisis and the need for governments to foster new economic growth in order to create jobs is prompting the development and use of green technologies. At the same time, however, this is creating new global competition for limited resources, such as rare earths, and the race to become a leader in green tech innovation is giving rise to a series of new global political and economic realities, tensions and disputes.

Against this backdrop the European Union has forged a clear path to renewed economic growth in a low carbon era, investing in RES, setting clear targets and creating green jobs. The United States by contrast is hesitating and in fact sustainability and a path to green growth are under fierce attack domestically. Emerging countries are struggling to define a clear position in relation to climate change, even though they are the most exposed. The goal of this course is to familiarize students with the global transition to low carbon economies already underway, to better understand the technologies, the disputes, the players in the green growth race and their competition as it develops. It also aims at giving them a better understanding of sustainability in action and to help work on the rhetorical arguments needed to explain and defend the transition to ecological sustainability in a globalized world.

CREDITS: 3 credits

CONTACT HOURS: 45 hours

LANGUAGE OF INSTRUCTION: English

PREREQUISITES: None, but a Macroeconomics or Environmental Studies background is a plus.

METHOD OF PRESENTATION:
- Lectures
- Prezis
- Audiovisual content

REQUIRED WORK AND FORM OF ASSESSMENT:
- Course participation - 10%
- Midterm – 30%
- Oral Presentations – 20%
- Final Paper 30%
- Media reports - 10%

Course Participation
Students are expected to actively participate to each sessions and to process the readings as to be able to debate. In the light of the present climate negotiations that took place in 2015 in Paris, students will be moreover asked to keep track of developments pertaining to these negotiations.

Media Report
This is an individual 2 pages assignment to be handed out on the third week of class by each student on a list of predetermined topics. Instructions will be provided during the first week.

Oral presentations: 15 minute presentations prepared in pairs. Their goal is to go further into detail. PPT or PREZI
Final Paper: A 2500 word paper due on April 26th. This deadline is non-negotiable and the topic will have to be defined by the date of the midterm.

Seminar organization.
The class sessions are a mixture of lectures, group work and case studies. Homework assignments are an important part of the course and timely completion of these is a must. Classroom activity will be partly based on students’ external work.

**LEARNING OUTCOMES:**

By the end of the course students will be able to:

- Discuss how the drive to lower carbon emissions is changing business and organizations
- Understand development strategies built around green growth principles
- Understand how business growth can be decoupled from the overuse of resources

Successful students will have a knowledge and understanding of:

- The interlink between climate change and business
- How businesses have implemented sustainable practices
- The sustainable value chain and business networks for innovative and cooperative solutions

Successful students will be able to gain the following skills and attributes:

- Take an effective role in identifying areas for change in national economies and international organizations
- Awareness of the business actors interplay in contributing to sustainable business practices

**CONTENT:**

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<th>Week</th>
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<td>Session 1</td>
<td><strong>Introduction</strong></td>
<td>Interviewing classmates in order to know each other.</td>
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<tr>
<td>January 25</td>
<td>1. Functional: Presentation of the class contents and review of the syllabus main themes</td>
<td>Asking and giving the motivations to engage with sustainability</td>
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<td>2. The Context: the issue of sustainability and climate change after the COP 21 in Paris.</td>
<td>Oral introduction about climate change issues today</td>
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<td>3. Conceptual: short introduction to the methodology of the course, presentation n</td>
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<td>4. The glossary of green growth: discussion and debate</td>
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<td>5. Assignment explanation and allocation</td>
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<td><strong>Readings</strong></td>
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<td>- Reader Introduction</td>
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<td></td>
<td>Climate Change and Society: Approaches and Responses, John S. Dryzek, Richard B. Norgaard, and David Schlossberg</td>
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<td>The –READER The Development of the Concept of Dangerous Anthropogenic Climate Change by Spencer Weart</td>
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<td>Session 2</td>
<td><strong>Sustainability, Green Growth and Global Warming: political social and economic challenges.</strong></td>
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<td>February 1</td>
<td>1. Conceptual: An introduction to a multifaceted problem</td>
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<td>2. Historical review of Environmental Negotiations, from the XIXth to the XXist century.</td>
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<td>3. From nature to the environment and eco-systems</td>
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<td>Session 3</td>
<td>The Case of the European Union</td>
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<td>February 8</td>
<td>1. Conceptual: Economic Integration and Sustainability concerns.</td>
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<td>2. Policy Instruments Analysis: Carbon Credits and the 20/20/20 strategy</td>
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<td>3. The case of France in the EU</td>
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<td>4. The Economy of NCREs</td>
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<td>5. International relations: Environmental Negotiations and the Post Kyoto Protocol Scenario</td>
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<td>Readings</td>
<td>-&quot;Transatlantic Environment and Energy Politics&quot; by Miranda A. Schreurs, Henrik Selin, Stacy D. VanDeveer, Ashgate 2009. Ch.3</td>
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<td></td>
<td>-READER Chapter 23 Climate change and energy security in the European Union: from rhetoric to practice? Pp.353-368</td>
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<th>Session 4</th>
<th>American Dilemmas and State initiatives</th>
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<td>February 22</td>
<td>1. Conceptual: sustainable development law and policy in the US.</td>
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<td>2. The US environmental policy since the 1970s</td>
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<td>3. The Ethanol industry in the US</td>
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<td>Reading</td>
<td>-Denis Hayes, Cowed: The Hidden Impact of 93 Million Cows on America’s Health, Economy, Politics, Culture and Environment, W&amp;W Norton and Company, 2015, Chapter 6-7</td>
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|  | -Case Study 1: The roots of the environmental movement in France and Germany |
|  | -Case Study 2: What is green growth? |
|  | Case Study 1: The Energiewende: Germany’s strategy to sustainability |
|  | Case Study 2: Poor and green: Greece’s environmental stance in times of crisis |
|  | -Media Report Case Study 1: The California Cap and Trade Market, then and now |
|  | Case Study 2: The Obama administration and the turn in environmental policies at the Federal Level. |
| Session 5 | March 1 | **Green Growth in Asia: Radical measures for desperate Settings**  
1. Conceptual: to the sources of green growth in Asia between global warming and environmental impacts  
2. Disaster relief and incremental sustainability measures  
3. Environmental Risk: theoretical and empirical analysis  
4. Best practices analyzed  

**Readings**  
- READER: Kartha, S. Discourses of the Global South  
- M. Mani Greening India’s Growth: Costs, Valuations and Trade-offs (repost) 2013  

Case Study 1: MetroManila Urban Impasse and the curse of Global Warming  
Case Study 2: Adapting to change in Kuala Lumpur |

| Session 6 | March 8 | **Midterm and Roundup on the first half of the content sessions. Preliminary discussion on the student’s choice of subjects for the final paper.**  

-Midterm |

| Session 7 | March 15 | **The Role of International Organizations: from the UN and the OECD to Government Agencies**  
1. The UNFCC: an analysis of the roots of the issue of climate change in the UN  
2. The Kyoto protocol: outstanding mechanisms, coalitions and conflicting issues between North and South  
3. The OECD Green Growth Program and its impact on public policy making  
4. The role of government agencies in the diffusion of best practice mode  

**Readings**  

Case Study 1: Canada’s opting out of Kyoto: short term considerations or structural disagreement?  
Case Study 2: The European Strategy post-Kyoto. |
### Session 8  
**March 22**

**The Industry of Green: Renewable strategies and Green washing perils**

1. An introduction to clean production processes and carbon footprint analysis.
2. Non-conventional renewable energies explained
3. A cost-analysis of carbon neutral processes
4. Environmental trade related issues: rules of origin

**Readings**

- READER: Pulver, S. Corporate Responses
- READER: Szasz, A. Is Green Consumption Part of the Solution
- Anco S. Blazev "Solar Technologies for the 21st Century" Fairmont Press 2013. (Ch1)

**Case Study:** The WTO and clean production processes

**Case Study:** The Paris Autolib experience: when green is brown

### Session 9  
**March 29**

**Smart Cities and Eco-Cities: bringing ICTs in**

2. The definition of the SMART City
3. The role of corporate actors and the promotion of an urban growth model
4. Linking ICTs promotion and sustainability strategies: conceptual and empirical issues

**Readings**


**Media Report 2**

**Case Study:** The case of Barcelona

**Case Study:** The Case of Singapore

### Session 10  
**April 5**

**Green energy designs in a time of Plenty**

1. The End of fossil fuels: conceptual issues related to the peak oil and energy dependency
2. The reconversion of oil-dependent economies into renewables: the case of the U.A.E.
3. Sustainable fuels in the South and added value chains
4. The issue of energy efficiency: conceptual explanation and empirical demonstration.

**Readings**

**Case Study:** The Proalcool program in Brazil: Is ethanol a clean energy?

**Case Study:** Building a green city in the desert: the case of Masdar City

**Case Study:** Eco Districts in France: An economic analysis
| Session 11 | April 12 | Case Study 1: Water Wars in Bolivia  
Case Study 2: Jakarta Water Feuds.  
|-----------|---------|-----------------------------------|
| **Water distribution issues and development constraints for the XXIst century**  
**Environmental Justice Explained**  
**Social progress vs Economic Development: a critical discussion**  
**Readings**  
| Session 12 | April 19 | Sustainability benchmarking and Environmental management.  
1. Conceptual: Environmental Benchmarking and New Public Management  
2. Thematic: Government strategies and Public Administration Reform  

**COURSE-RELATED TRIPS:**  
- A visit to the Eco Quartier Clichy Batignolles. Date to be confirmed.
REQUIRED READINGS:


RECOMMENDED READINGS:

- "Transatlantic Environment and Energy Politics" by Miranda A. Schreurs, Henrik Selin, Stacy D. VanDeveer, Ashgate 2009
- Razzaque, J. Environmental Governance in Europe and Asia: A Comparative Study of Institutional and Legislative Frameworks ROUTLEDGE 2012
- Brown, K."Resilience, Development and Global Change" Routledge 2015
- Guzman, T. Overheated: The Human Cost of Climate Change By Andrew OUP, 2013.
- M. Mani Greening India's Growth: Costs, Valuations and Trade-offs (repost) 2013