



# Full Syllabus



| <b>Course Title</b>   |   |   |
|---|---|---|
| Environmental Policy and Sustainable Development  |   |   |
| <b>Lecturer</b>   |   |   |
| Valerie Brachya   |   |   |
| <b>Semester</b>   |   |   |
| Fall  |   |   |
| <b>Course requirements</b>  |   |   |
| <p><b>Attendance: All lectures</b></p> <p><b>Assignments:</b> brief case examples presented in class, preparation for an interactive session on environmental impact assessment and for a conflict simulation</p> |   |   |
| <b>Final grade components</b>   |   |   |
| <p>20% for case presentation and participation in simulation</p> <p>80% a Final Paper due <b>Feb. 14</b>. Instructions will be distributed by Feb. 7.</p>   |   |   |
| <b>Course schedule</b>  |   |   |
| Class no. / Date  | Lecture topic   | Comments  |
| Oct.27  | No Class  |   |
| Nov.3   | Evolution of environmental policy and sustainable development         | <ul style="list-style-type: none"> <li>a. Development within ecological and social boundaries</li> <li>b. From Stockholm, through Rio and Johannesburg to Copenhagen, to Rio+20, to the Paris agreement on climate change, to UN SDG's. Are we on the right roadmap?</li> <li>c. Sustainable production, sustainable development and sustainable consumption</li> </ul> |
| Nov.10  | Mainstreaming sustainability policy into decision making and practice | <ul style="list-style-type: none"> <li>a. Principles and processes</li> <li>b. Sustainability strategies , policies and instruments</li> <li>c. Is greening the economy the road to sustainability</li> <li>d. Post Covid changes to policy making</li> </ul>   |
| Nov.17<br>Double class between 08:30-11:45  | Environmental impact assessment of development projects               | <ul style="list-style-type: none"> <li>a. EIA as a tool in environmental governance</li> <li>b. Identifying impacts and anticipating consequences</li> <li>c. Stakeholders and decision makers</li> <li>d. Future directions for EIA</li> </ul>   |
|   | Sustainable Cities  | <ul style="list-style-type: none"> <li>a. What makes a city sustainable – international policy and experience</li> <li>b. The role of green infrastructure, green building and green neighborhoods</li> <li>c. Measurement and indicators of sustainable cities</li> </ul>  |
| Nov.24  | No Class  |   |



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| Dec.1                                      | Landscape and nature protection  | <ul style="list-style-type: none"> <li>a. An ecosystem approach</li> <li>b. A landscape approach</li> <li>c. Management of land as space</li> <li>d. Conflicts between conservation, afforestation and agriculture</li> </ul>   |
| Dec.8                                      | Coastal Planning and Port Development Interactive session              | <ul style="list-style-type: none"> <li>a. Integrated coastal zone management and marine spatial planning</li> <li>b. Preparation of guidelines for an environmental impact assessment of a port development</li> </ul>  |
| Dec.15<br>Double class between 08:30-11:45 | Sustainability in extractive industries                                | <ul style="list-style-type: none"> <li>a. Global trends in materials management and resource productivity</li> <li>b. Environmental impacts of extraction, mining and processing activities</li> <li>c. Guidelines for minimizing and managing impacts for quarry and mine reclamation</li> </ul>   |
|  | Sustainable Production and Consumption                                 | <ul style="list-style-type: none"> <li>a. Technological approaches - Eco efficiency and the circular economy</li> <li>b. Service approaches – changing the business model</li> <li>c. Sociological and behavioral approaches – changing lifestyles</li> <li>d. Post Covid lifestyles</li> </ul>   |
| Dec.22                                     | Sustainable Transport  | <ul style="list-style-type: none"> <li>a. Accessibility versus mobility</li> <li>b. Incorporating environmental and social considerations in planning for interurban transportation - Example: Highway 6 in Israel</li> <li>c. Mobility as a System</li> <li>d. Incorporating environmental and social considerations in planning for urban transportation</li> </ul> |
| Dec.29                                     | Sustainable Energy   | <ul style="list-style-type: none"> <li>a. Sustainability implications of energy supply alternatives – are renewables the answer to sustainability?</li> <li>b. Energy supply side management</li> <li>c. Energy demand side management</li> <li>d. Energy transmission and distribution systems</li> </ul>  |
| Jan. 5                                     | Sustainable Tourism  | <ul style="list-style-type: none"> <li>a. Impacts of tourist travel and infrastructures</li> <li>b. Finding a balance between generating income and protecting sensitive resources</li> <li>c. Green, eco and sustainable tourism</li> </ul>  |
| Jan. 12                                    | Simulation of a planning committee considering a development proposal  | The students will be allocated roles and participate in the simulation of a dispute concerning a development project  |
| Jan. 19                                    | Conflict resolution between developers and environmental organizations | <ul style="list-style-type: none"> <li>a. Role of environmental organizations and civil society in environmental governance and development planning</li> <li>b. Stakeholder involvement in conflicts and the NIMBY syndrome</li> <li>c. How can we get to agreements?</li> </ul>   |



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## Required course reading

### Understanding Sustainability

- \*Seminal papers for understanding sustainability
- \*Rockstrom J et al (2009) *Planetary Boundaries: Exploring the Safe Operating Space for Humanity* Ecology and Science
- \*Steffen et al (2015) *Planetary Boundaries: Guiding human development on a changing planet* Science vol 347
- \*Geels, FW, BK Sovacool, T Schwanen, and S Sorrell. "Sociotechnical transitions for deep decarbonisation," *Science* 357 (6357) (September 22, 2017), pp. 1242-1244.
- \* Raworth K (2012) *A safe and just space for humanity. Can we live within the doughnut?* Oxfam Discussion papers (later published in 2017 as *Doughnut Economics*)
- \*UN (2015) *Transforming our World. The 2030 agenda for sustainable development*
- \*Jackson T (2009) *Prosperity without Growth . Economics for a finite planet.* UK Sustainable Development Commission (for further reading, Jackson published *Post Growth* in 2021).
- \*O'Neill D W et al (2018) *A good life for all within planetary boundaries* Nature Sustainability 1 88-95
- Rees W and Wackernagel M 1996 *Our Ecological Footprint*
- IISD (2020) *The Precautionary Principle – Still Only One Earth*

## Optional course reading

### Sustainability and Development Policy

- UN 1992 *Agenda 21*
- UN 2015 *Sustainable Development Goals SDG's for 2030*
- OECD (2017 onwards) *How's Life*
- UNEP (2019) GEO Chapter 22 *Pathways towards sustainable development*
- UNEP (2021) *Making Peace with Nature*
- UNEP (2022) *Practice for Sustainable Infrastructures 2<sup>nd</sup> ed.*
- European Environment Agency (2020) *The European Environment – State and Outlook (SOER)* Executive Summary and chapters 15 and 16
- UK Department of Housing, Communities and Local Government (2021) *National Planning Policy Framework*
- Fanning A et al (2022) *The Social Shortfall and Ecological Overshoot of Nations*, Nature Sustainability
- Sachs J et al (2019) *Six Transformations to achieve the Sustainable Development Goals* Nature Sustainability
- Brachya V (2013) *Towards Sustainable Development – mainstreaming environment in Israel* in Orenstein, Tal and Miller *Between Ruin and Restoration: an environmental history of Israel* University of Pittsburgh press

### Environmental Impact Assessment:

- Eccleston and March (2010, 2017) *Global Environmental Policy* Chapter 3 Environmental Impact Assessment
- UNEP (2015) *An introduction to environmental assessment*
- International Association for Impact Assessment IAIA website: *What is impact assessment*
- Glasson J, R. and Therivel (2019) *Introduction to Environmental Impact Assessment 5<sup>th</sup> edition* Routledge (earlier edition available online)
- Loomis et al (2018) *Evaluating EIA systems' effectiveness: A state of the art* EIA Review 68 20-37
- IFC *Environmental Health and Safety Guidelines*
- The Equator principles* (2019)



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## **Urban:**

UN Habitat (2016) *A New Urban Agenda*  
UNEP (2018) Intergovernmental Resources Panel, *The weight of cities: resource requirements of future urbanization (summary for policy makers)*  
RTPI (2021) *Urban Planning after Covid 19*  
IPCC (2021) Chapter 8 *Urban systems and other settlements* – section 8.4 Urban Mitigation options  
Arcadis (2016) *Sustainable Cities index*

## **Open Space and Ecosystems:**

IUCN (2015) *Protected areas: governance and management* chapter 2  
IPBES (2019) *Global assessment report on biodiversity and ecosystem services* – summary for policy makers

## **Transportation:**

UN Expert Panel (2016) *Mobilizing sustainable transport for development*  
LSE (2016) *Towards New Urban Mobility*  
Institute for sustainable infrastructure (2018) V3 manual  
UNECE (2020) *Mobility Management*  
IPCC (2021) chapter 10 Transport Section 10.2 *Systemic changes in the transport sector*

## **Extractive Industry**

OECD (2019) *Global Material Resources Outlook 2060*  
UNDP (2018) *Managing mining for sustainable development*  
Ali Saleem (2017) *Mineral Supply for Sustainable Development requires resource governance* Nature July

## **Energy**

IEA (2021) *World Energy Outlook*  
UNEP (2016) *Green Energy Choices*  
IEA (2020) WEO Outlook special report *Sustainable Recovery*

## **Tourism**

Bramwell B et al (2016) *Twenty five years of sustainable tourism* Journal of sustainable tourism vol 25  
One Planet (2020) *One Planet Vision for a Responsible Recovery of the Tourism Sector*  
UNWTO (2020) *A responsible recovery of the tourism sector*

## **Marine and Coastal:**

UNEP Mediterranean Action Plan (2009) *Protocol on Integrated Coastal Zone Management* articles 5-14  
UNESCO (2010) *Marine Spatial Planning*

## **Conflict Resolution**

Michael L. Elliott and Sanda Kaufman (2016) *Enhancing Environmental Quality and Sustainability through Negotiation and Conflict Management: Research into Systems, Dynamics, and Practices* Negotiation and conflict management research  
Clarke t and Peterson (2016) *Environmental Conflict Management*. Sage  
Furst B (2014) *Environmental Campaigns in Israel and their spatial impacts* Advances in Sustainability and Environmental Justice 15



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## Sustainable consumption

UNEP (2016) *A framework for shaping sustainable lifestyles - determinants and strategies*

Bengtsson M et al (2018) *Transforming systems of consumption and production for achieving sustainable development goals: moving beyond efficiency*. Sustainable Science

Alfredson Eva et al (2018) Policy brief: *why the Paris agreement requires reduced overall consumption and production* Sustainability Science Practice and Policy vol 14

OECD (2017) *Tackling environmental problems with the help of behavioural insights*

Southerton D and Welch D (2018) *Transitions for Sustainable Consumption after the Paris Agreement*

Stanley Foundation Policy Analysis Brief

Friends of the Earth (2018) *Sufficiency*

Brown, H.S. and Vergragt, P.J. (2016). *From Consumerism to Wellbeing: Toward a Cultural Transition*. Journal of Cleaner Production.

Echegaray F, Brachya V, Vergragt P and Zhang L (2021) *Sustainable Lifestyles after Covid-19* Routledge

Hot or Cool (2021) *1.5 Degree Lifestyles – a fair consumption space for all*

IPCC (2021) chapter 5 Demand Services and social aspects of mitigation Section 5.4 *Transition towards high wellbeing and low carbon demand societies*

## Comments

\*Lectures listed by date are subject to change throughout the semester