



Full Syllabus



Course Title		
Environmental Policy and Sustainable Development		
Lecturer		
Valerie Brachya		
Semester		
Fall		
Course requirements		
<p>Attendance: All lectures</p> <p>Assignments: brief case examples online and presented in class, preparation for an interactive session on environmental impact assessment and for a conflict simulation</p>		
Final grade components		
<p>30% for online and in class assignments</p> <p>70% for final paper due Feb. 23. Instructions will be distributed by Feb. 16</p>		
Course schedule		
Class no. / Date	Lecture topic	Comments
Oct.19	Evolution of environmental policy and sustainable development	<ul style="list-style-type: none"> a. Development within ecological and social boundaries 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? c. Sustainable production, sustainable development and sustainable consumption
Oct.26	Mainstreaming sustainability policy into decision making and practice	<ul style="list-style-type: none"> a. Principles and processes b. Sustainability strategies , policies and instruments c. Is greening the economy the road to sustainability d. Is a crisis an opportunity for change?
Nov. 2	Environmental impact assessment of development projects	<ul style="list-style-type: none"> a. EIA as a tool in environmental governance b. Identifying impacts and anticipating consequences c. Stakeholders and decision makers d. Future directions for EIA
Nov.9 Double class between 08:30-11:45	Sustainable Cities	<ul style="list-style-type: none"> a. What makes a city sustainable – international policy and experience b. The role of green infrastructure, green building and green neighborhoods c. Measurement and indicators of sustainable cities
	Landscape and nature protection	<ul style="list-style-type: none"> a. An ecosystem approach b. A landscape approach c. Management of land as space



Full Syllabus



		d. Conflicts between conservation, afforestation and agriculture
Nov.16	No Class	
Nov.23	Coastal Planning and Port Development Interactive session	a. Integrated coastal zone management and marine spatial planning b. Preparation of guidelines for an environmental impact assessment of a port development
Nov.30	Sustainability in extractive industries	a. Global trends in materials management and resource productivity b. Environmental impacts of extraction, mining and processing activities c. Guidelines for minimizing and managing impacts for quarry and mine reclamation
Dec. 7	Sustainable Production and Consumption	a. Technological approaches - Eco efficiency and the circular economy b. Service approaches – changing the business model c. Sociological and behavioral approaches – changing lifestyles d. Infrastructure approaches – choice architecture
Dec. 14	Sustainable Transport	a. Accessibility versus mobility b. Incorporating environmental and social considerations in planning for interurban transportation - Example: Highway 6 in Israel c. Mobility as a System d. Incorporating environmental and social considerations in planning for urban transportation
Dec. 21	Sustainable Energy	a. Sustainability implications of energy supply alternatives – are renewables the answer to sustainability? b. Energy supply side management c. Energy demand side management – efficiency and low carbon lifestyles d. Energy transmission, storage and distribution systems
Dec.28	Sustainable Tourism	a. Impacts of tourist travel and infrastructures b. Finding a balance between generating income and protecting sensitive resources c. Green, eco and sustainable tourism
Jan. 4	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. 11	Conflict resolution between developers and environmental organizations	a. Role of environmental organizations and civil society in environmental governance and development planning b. Stakeholder involvement in conflicts and the NIMBY syndrome c. How can we get to agreements?



Full Syllabus



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
- *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
- *O'Neill D W et al (2018) *A good life for all within planetary boundaries* Nature Sustainability 1 88-95

Optional course reading

Sustainability and Development Policy

- OECD (2017 onwards) *How's Life*
- UNEP (2019) GEO Chapter 22 *Pathways towards sustainable development*
- 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*
- 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 5th 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)

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)*

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*



Full Syllabus



Transportation:

UN Expert Panel (2016) *Mobilizing sustainable transport for development*
LSE (2016) *Towards New Urban Mobility*
Institute for sustainable infrastructure (2018) V3 manual

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 (2020) *World Energy Outlook*
UNEP (2016) *Green Energy Choices*
World Energy Council (2017) *Trilemma index*

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*

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

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

Comments

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