

SASI03: Environmental Studies and Sustainability Science:
Concepts, Challenges and Approaches in Sustainability Studies

Study guide

7.5 credits

Fall 2018: September 3rd – November 2nd

Schedule

Day	Date	Time	Venue	Title	Teacher
Week 1					
Mon	3/9	9-12	Carson	Roll-call & course introduction Mandatory	Stephen Woroniecki
Wed	5/9	13-15	Carson	How do we know we have sustainability problems?	Emma Johansson
		16		Library introduction Geolibrary, Sölvegatan 12	
Week 2					
Mon	10/9	9-12	Carson	Key concepts, debates and history of Environmental and Sustainability Studies + Literature seminar Mandatory	Stephen Woroniecki
Wed	12/9	13-15	Carson	Governance of sustainability	Torsten Krause
Week 3					

Mon	17/9	10-12	Carson	Behavioral approaches to sustainability problems	Sanna Stålhammar
Wed	19/9	13-15	Carson	Social science for sustainability studies	David O'Byrne
Week 4					
Mon	24/9	9-12		Group work	No class
Wed	26/9	13-16	SYSAV Malmö	Field trip to SYSAV waste recycling center	
Week 5					
Mon	1/10	9-11	Carson	Environmental Justice	Vasna Ramasar
Wed	3/10	13-16	Carson	Group presentations; Hand in of reports L@L 12.00 Mandatory	Sanna Stålhammar/ Stephen Woroniecki
Week 6					
Mon	8/10	10-12	Carson	Climate change	Stephen Woroniecki
Wed	10/10	13-15	Carson	Environmental humanities lab	Stephen Woroniecki & Sanna Stålhammar
Week 7					
Mon	15/10	10-12	Carson	Sustainability lab #1 - Health Mandatory	Sara Gabrielsson
Wed	17/10	14-16	Carson	Sustainability lab #2 – Water Mandatory	Ann Åkerman
Week 8					

Mon	22/10	10-12	Carson	Sustainability lab #3 – Energy Mandatory	Sara Brogaard
Wed	24/10	13-15	Carson	Sustainability lab #4 – Food Mandatory First individual assignment hand-in L@L 12.00	Kimberly Nicholas
Week 9					
Mon	29/10	9-12	Carson	Assignment discussion seminar Mandatory	Sanna Stålhammar/ Stephen Woroniecki
Wed	31/10	13-14	Carson	Wrap-up and course evaluation Mandatory	Sanna Stålhammar/ Stephen Woroniecki
Fri	2/11			Final individual assignment hand-in L@L 12.00	

Course requirements

Attendance

The course is comprised of lectures, seminars, labs and an excursion. Unless there are valid reasons to the contrary, participation is required in all components marked as “mandatory” in the schedule. Students who have been unable to participate due to circumstances such as accidents or sudden illness will be offered the opportunity to compensate for or re-take compulsory components. This also applies to students who have missed classes because of activities as a student representative.

Assessment

Assessment is carried out by means of evaluation of a written group project and oral presentation of the group project (35 % of final grade), two individual assignments (take-home exams) (5 % of final grade), completion of a log book (5 % of final grade) and a final individual paper (take-home exam) (50 % of final grade). The course includes opportunity for re-examination of all assessments at the end of the course and five weeks after hand-in of

the final assessment. Two further re-examinations of the same course are offered within a year of the end of the course.

Note that the final individual assignment has a first and final hand-in date as well as a mandatory discussion seminar. The assignments will be introduced at the start of the course and posted on live@lund

Office hours

Stephen Woroniecki
Room 109, Josephsson
Mondays 13-15
Wednesdays 10-12

Sanna Stålhammar
Room 109, Josephsson
Mondays 13- 15
Fridays 9-11

Reading instructions

General readings

Bierman, F. 2014. "The Anthropocene: A governance Perspective." *The Anthropocene Review* 1(1) 57–61.

Carson, R. (1962) 2002. *Silent Spring*. New York: Houghton Mifflin. *1: A fable for tomorrow + 2: The obligation to endure. (Available online)*

Dietz, S., Neumayer, E., 2009. Economics and the governance of sustainable development, *Governing Sustainability*. Pp 259-282. (23 pages) available at:
<http://www.lse.ac.uk/GranthamInstitute/publication/economics-and-the-governance-of-sustainable-development-governing-sustainability-essays-in-honour-of-tim-oriordan/>

Klein, N. 2014. *This Changes Everything*. New York: Simon and Schuster. *Introduction: One way or the other everything changes.*

Raworth, K. 2012. "A Safe and Just Space for Humanity. Can we live within the doughnut?"
Oxford:
Oxfam Discussion Papers.

Rockström, J et al. 2009. "A safe operating space for humanity." *Nature* 461(7263): 472-475.

Weekly readings

Week 1

3/9

General readings

5/9

Gapminder. 2018. Gapminder. Available at: <https://www.gapminder.org/>.

IPCC. 2014. Climate Change 2014: Synthesis Report Summary for Policymakers Available from: http://www.ipcc.ch/pdf/assessment-report/ar5/syr/AR5_SYR_FINAL_SPM.pdf. (32 pages)

Our World in Data. 2018. Our World in Data. Available at: <https://ourworldindata.org>.

Week 2

10/9

In addition to Raworth (2012) and Rockström et al., (2009) (above), read:

Kates, R et al. "Sustainability Science." *Science* 292 (5517): 641-642.

12/9

Berkes, F. 2017. Environmental Governance for the Anthropocene? Social-Ecological Systems, Resilience, and Collaborative Learning, *Sustainability* 2017, 9(7), 1232. Available at: <http://www.mdpi.com/2071-1050/9/7/1232/htm>

Doak, D. F. et al. 2014. What is the future of conservation? *Trends in Ecology and Evolution*, 29(2): 77-81. (4 pages)

Kareiva, P and Marvier, M. 2012. What is conservation science? *BioScience*, 62:962-969. (6 pages)

Schröter, M. et al. 2014. Ecosystem Services as a Contested Concept: A Synthesis of Critique and Counter-Arguments. *Conservation Letters*, 7(6), 514-523. (18 pages)

Week 3

17/3

Steg, L and Vlek, C. 2009. Encouraging pro-environmental behaviour: An integrative review and research agenda. *Journal of Environmental Psychology*, 29: 309-317. (8 pages)

Vlek, C and Steg, L. 2007. Human Behaviour and Environmental Sustainability: Problems, Driving Forces, and Research Topics, *Journal of Social Issues*, 63(1):1-19. (19 pages)

19/9

Elder-Vass, D. 2010. *The Causal Power of Social Structures – Emergence, Structure and Agency*. Cambridge University Press. “The problem of structure and agency” pp. 1-9.

+ approximately 20 pages of media articles

Week 4

(Field trips and Group work; general readings)

Week 5

1/10

Mohai, P., Pellow, D. and Timmons Roberts, J. (2009) Environmental justice. *Annual Review of Environment and Resources* vol.34: 405-430

Nixon, R. 2011. *Slow Violence and the Environmentalism of the Poor*. Cambridge, Mass.: Harvard UP. *Chapter 1*.

3/10

(Group presentations)

Week 6

8/10

Klein, N. 2014. Introduction: One way or the other everything changes. In *This Changes Everything*. New York: Simon and Schuster.

Schleussner, C.-F., et al., Science and policy characteristics of the Paris Agreement temperature goal. *Nature Climate Change*, 2016. 6(9): p. 827-835.

Hulme, M. (2009). The Social Meanings of Climate. In *Why We Disagree about Climate Change: Understanding Controversy, Inaction and Opportunity* (pp. 1-34). Cambridge: Cambridge University Press. doi:10.1017/CBO9780511841200.003
Available at: http://sciencepolicy.colorado.edu/students/envs_5720/hulme_ch1.pdf

R.S.J. Tol et al. Distributional aspects of climate change impacts. *Global Environmental Change* 14 (2004) 259–272

Jones, H.P., D.G. Hole, and E.S. Zavaleta, Harnessing nature to help people adapt to climate change. *Nature Climate Change*, 2012. 2(7): p. 504.

10/10

In addition to Carson (1962):

Cronon, W., 1996. The Trouble with Wilderness or Getting back to the wrong Nature. *Environ. Hist. Durh. N. C.* 1, 7–28. (21 pages)

Week 7- 8

Literature for the Sustainability labs will be sent assigned by guest lectures

Additional readings (up to 200 pages) will be assigned by guest lecturers