



## **Literature for MESS33, Sustainability Science applies from autumn semester 2021**

Literature established by The Board of the Lund University Centre for  
Sustainability Studies on 2021-05-20 to apply from 2021-08-30

---

See appendix.



LUND  
UNIVERSITY

Lund University Centre for  
Sustainability Studies

MESS33 LITERATURE LIST

2021-05-20

Dnr STYR 2021/1324

## Hållbarhetsvetenskap, 10 högskolepoäng

*Sustainability Science, 10 credits*

MESS33 litteraturlista fastställd av LUCSUS styrelse den 20 maj 2021.

### *Course literature*

1. Bergmann, M., Schöpke, N., Marg, O. et al. Transdisciplinary sustainability research in real-world labs: success factors and methods for change. *Sustain Sci* 2021. 16, 541–564.  
<https://doi.org/10.1007/s11625-020-00886-8>
2. Burkhard B. & Müller F. *Encyclopedia of Ecology Ecological Indicators: Driver–Pressure–State–Impact–Response*. Elsevier. 2008. 2: 967-970. (ask Barry to post pdf).
3. Cash, D. W., W. Adger, F. Berkes, P. Garden, L. Lebel, P. Olsson, L. Pritchard, and O. Young. *Scale and cross-scale dynamics: governance and information in a multilevel world*. *Ecology and Society* 2006. 11(2): 8. [online] URL:  
<http://www.ecologyandsociety.org/vol11/iss2/art8/>
4. Cash, D.W., et al., *Knowledge systems for sustainable development*. PNAS, 2003. 100(14): 8086-8091.
5. Clark, W.C. and Dickson, N. M. *Sustainability Science: the emerging research program*. PNAS, 2003. 100(14): 8059-8061.
6. Frantzeskaki, N. and Loorbach D. *Governing societal transitions to sustainability*. *Int. J. Sustainable Development*, 2012. 151/2:19-36.
7. Funtowicz, S.O. and Ravetz, J.R. *Science for the Post-Normal Age*. *Futures*. Sept. 1993. 739-755.
8. Geels, F. (2011) *The multi-level perspective on sustainability transitions: responses to seven criticisms*. *Journal of Environmental Innovation & Societal Transitions*, 1 (1):24-40. ISSN 2210-4224

9. Gibson C.C., Ostrom E. and, Ahn T.K. *The concept of scale and the human dimensions of global change: a survey*. Ecological Economics. 2000. 32: 217–239.
10. Jerneck, A., Olsson, L., Ness, B., Anderberg, S., Baier, M., Clark, E. et al. *Structuring sustainability science*. Sustainability Science. 2011. 6:69-82.
11. Kates, R.W., Clark, W.C., Corell ,R., Hall, J.M., Jaeger C.C., Lowe, I., McCarthy, J., Schellnhuber, H.J., Bolin, B., Dickson, N.M., et al. *Sustainability Science*. Science, 2001. 292(5517), 641-2. (2)
12. Köhler, J., Geels, F. W., Kern, F., Markard, J., Onsongod, E., Wieczorek, A., Floortje Alkemade, Avelino, F., et al. *Viewpoint: An agenda for sustainability transitions research: State of the art and future directions*. Environmental Innovation and Societal Transitions 2019. 31: 1–32.
13. Lang, D. J. et al. *Transdisciplinary research in sustainability science: practice, principles and challenges*. Sustainability Science. 2012. 7(Suppl. 1): 25-43.
14. Mahmoud, M. et al. *A formal framework for scenario development in support of environmental decision-making*. Environmental Modelling & Software 2009. 24: 798–808.
15. Meadows, D. *Thinking in Systems: A Primer (Intro chapter)*. 2008. White River Junction, Chelsea Green (selected parts only; pdf will be made available).
16. Miller, T. R. *Constructing sustainability science: emerging perspectives and research trajectories*. Sustainability Science. 2013. 8:279-293.
17. Nevens, F., Gorissen, L., Frantzeskaki, N., and Derk Loorbach, D. *Urban Transition Labs: co-creating transformative action for sustainable cities*. Journal of Cleaner Production 2013. 50:111-122.
18. Ostrom, E, *A General Framework for Analyzing Sustainability of Social-Ecological Systems*. Science, 2009. 325(24 July): p. 419-422.
19. Partelow, S., Glaser, M., Solano Arce, S., Sá Leitão Barboza, R., Schlüter, A. (2018). *Mangroves, fishers, and the struggle for adaptive comanagement: applying the social-ecological systems framework to a marine extractive reserve (RESEX) in Brazil*. Ecology and Society 23(3):19. <https://doi.org/10.5751/ES-10269-230319>
20. Raudsepp-Hearne, C., Peterson, G.D., Bennett, E.M. et al. Seeds of good anthropocenes: developing sustainability scenarios for Northern Europe. *Sustain Sci* 2020. **15**, 605–617. <https://doi.org/10.1007/s11625-019-00714-8>
21. Rokaya, P., Sheikholeslami, R., Kurkute, S., Nazarbakhsh, M., Zhang, F. & Reed, M. E. *Multiple factors that shaped sustainability science journal: 1 10-year review*. Sustainability Science. 2017. 1-14. <https://doi.org/10.1007/s11625-017-0495-4>

22. Rotmans, J. and Loorbach, D. *Complexity and Transition Management. Journal of Industrial Ecology*, 2009. 13:184–196.
23. Spangenberg, J. H. *Sustainability science: a review, an analysis and some empirical lessons*. *Environmental Conservation*. 2011. 38(3):275–287.
24. Spanò, M., Gentile, F., Davies, C., Laforteza, R. (2017) The DPSIR framework in support of green infrastructure planning: A case study in Southern Italy, *Land Use Policy*, 61:242-250
25. Wiek, A. & Iwaniec, D. *Quality criteria for visions and visioning in sustainability science*. *Sustainability Science*, 2014. 9:497–512.
26. Wiek, A., Ness, B., Brand, F. S., Schweizer-Ries, P., & Farioli, F. *From complex systems analysis to transformational change: a comparative appraisal of sustainability science projects*. *Sustainability Science*. 2012. 7(1):5–24.

*Required reading*

Total number of pages: missing

*Author gender balance*

Missing