

Summary Information

Module Code	7523CATSCI
Formal Module Title	Sustainability and Adaptation Concepts in Practice
Owning School	Biological and Environmental Sciences
Career	Postgraduate Taught
Credits	15
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Sarah Dalrymple	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Partner Teaching Institution

Institution Name
Centre for Alternative Technology

Learning Methods

Learning Method Type	Hours
Lecture	15
Seminar	7
Workshop	8

Aims and Outcomes

Aims	<p>a) This module will embed, a thorough understanding of transformational adaptation strategies and processes in responding to environmental change.</p> <p>b) To develop a critical understanding of the influence of power, knowledge, and ethics in the development of transformational adaptation responses.</p> <p>c) To gain an in-depth appreciation of the interdisciplinary nature of transformational adaptation strategies through facilitated and self-reflective practical team exercises.</p>
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Contextualize the discipline of transformational adaptation in relation to current environmental change.
MLO2	Critically examine the implications of power, knowledge, and ethics in developing transformational adaptation strategies, including ethical dilemmas when problem-solving and decision-making in relation to transformation and environmental change.
MLO3	Develop a critical understanding of how co-creative practices can contribute to developing transformational adaptation strategies.
MLO4	Demonstrate that they can work effectively in interdisciplinary teams.

Module Content

Outline Syllabus

Fundamentals and examples of transformational adaptation approaches and strategies in relation to environmental change. The influence of power, knowledge and ethics in the historical development of the climate and biodiversity crisis and climate injustices; and in societal responses. Interdisciplinary, creative and co-creative approaches in developing transformational strategies.

Module Overview

Additional Information

Indicative references:

Boykoff, M & Moser S (2013) *Successful adaptation to climate change: linking science and policy in a rapidly changing world*, Abingdon, Oxon England: Routledge

Bauman, W., O'Brien, K (2019) *Environmental Ethics and Uncertainty: Wrestling with Wicked Problems* Routledge, Oxon New York

Boylan, M (ed.) (2013,) *Environmental Ethics*, 2e, John Wiley & Sons, Incorporated, Somerset

Fedele, G., et al. (2019) Transformative adaptation to climate change for sustainable social-ecological systems. *Environmental Science & Policy* **101**: 116-125

Few, R., Morchain, D., Spear, D. *et al.* Transformation, adaptation and development: relating concepts to practice. *Palgrave Commun* **3**, 17092 (2017)

Lonsdale, K., Pringle, P. & Turner, B. (2015). Transformative adaptation: what it is, why it matters & what is needed. UK Climate Impacts Programme, University of Oxford, Oxford, UK.

Pelling, M O'Brien, K. and Matyas, D (2015) Adaptation and transformation. *Climatic Change*, **133**(1), pp. 113-127.* Available as e-resource

Scoones, I., Stirling, A., Abrol, D., Atela, J., Chrli-Joseph, L., eakin, H., Ely, A., Olsson, P., Pereira, L., Priya, R., van Zvananberg, P., yang, L., (2020). "Transformations to sustainability: combining structural, systemic and enabling approaches." *Current Opinion in Environmental Sustainability* **42**: 65-75

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Report	100	0	MLO1, MLO2, MLO3, MLO4