

This document provides detailed information on the module named below. It will be updated as necessary when modifications to the module are approved. Modules are allocated to a Subject Network not a programme, and may be accessed by students studying on different programmes.

1 SUMMARY MODULE INFORMATION

a Module title

Biodiversity Management.

b SITS module code

UC111904

c UHI Subject Network

Science, Environment & Rural Resource Management

d Exam board

MSc Managing Sustainable Rural/Mountain Development

e SCQF level

11 (also taken by Level 10 students)

f SCOTCAT credit points

15

g Module leader and contact details (email, phone)

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h Brief description of module

The module explores the methods by which biodiversity management can be achieved, considering strategy and policy at international, regional and local level and implementation. It examines the theories and scientific principles which underpin implementation. The module also critically considers the importance and effectiveness of biodiversity management in the context of sustainable development.

The aim of the module is to provide students with the opportunity and tools to understand the scientific principles underpinning biodiversity management and critically assess how effectively biodiversity management operates, particularly in the context of sustainable development.

i Pre-requisites or co-requisites

None.

j Primary mode(s) of delivery and support

(e.g. Face-to-face teaching, blended, block teaching, wholly online, etc).

Tutorials will be supported by web-based learning resources and guided study provided by on-line contact (individual e-mail and computer conferencing).

k Assessment

Essay, critical report, and online discussion.

To pass the module overall, you must get at least 50% in each of the assignments and the discussion board, as well as an overall weighted mark of at least 50%.

I Suitable for access via Learning Centres?

Yes.

2 MODULE DESCRIPTOR

a Aims

To enable students to understand the principles and practice of biodiversity management.

To critically assess the importance of biodiversity management for sustainable development, particularly in rural and mountain areas.

b Intended learning outcomes

- LO1 Understand the scientific principles underpinning biodiversity management.
- LO2 Evaluate the methods employed for biodiversity conservation as management tools contributing to sustainable development.
- LO3 Understand and discuss the nature of the mechanisms (strategy and policy) that are devised and implemented at local, national and international levels to facilitate biodiversity management.
- LO4 Critically analyse the implications of developments in biodiversity management for sustainable development, particularly in rural and mountain areas.

c Indicative content

- levels of biodiversity: genetic, species, ecosystem, landscape;
- the intrinsic and economic values of biodiversity conservation;
- threats to biodiversity;
- the development of the principles and practice of biodiversity conservation as a management tool;
- frameworks for biodiversity management: hotspots, protected areas, networks; conventions
- conservation and rural development: the social and economic implications of biodiversity management;
- integrating biodiversity management with other land management objectives: participatory approaches;
- the implications of climate change for biodiversity management;
- investigate recent developments in biodiversity management and critically assess the implications for sustainable development focusing on rural and mountain areas

d Mode(s) of delivery and support for teaching and learning

Face-to-face	0 hours or	... %
Video-conference	0 hours or	... %
Supported online learning	40 hours or	... %
Self-directed learning	110 hours	... %
Total activity	150	100%

e Assessment

Level 11	Weighting
Essay due week 7 2000 words	40%
Report due week 14 3000 words	50%
Discussion board exercises & discussion participation	10%

f Key learning resources

Reading List:

Essential:

Ladle, R.J. & Whittaker, R.J. (2011) Conservation Biogeography. Wiley-Blackwell, Oxford. ISBN978-1-4443-3504-0 ALSO AS AN E-BOOK ISBN 9781444390018

Primack, R.B. (2010) Essentials of Conservation Biology. Sinauer Associates Inc., Sunderland, MA, USA. 5th Ed.

MacDonald, D. & Service, K. (2006) Key Topics in Conservation Biology. Wiley-Blackwell. Available as an e-book.

Recommended:

Cox, C.B. & Moore, P.D. (2005) Biogeography; an ecological and evolutionary approach. 7th Edition, Blackwell.

Pullin, A.S. (2002) Conservation Biology. Cambridge University Press. (available as an e-book)

O'Riordan, T and Stoll-Kleemann, S. (eds.) (2002) Biodiversity, Sustainability and Human Communities: Protecting Beyond the Protected. Cambridge University Press.

Stolton, S. and Dudley, N. (eds.) (1999) Partnerships for Protection: New Strategies for Planning and Management for Protected Areas. Earthscan, London.

Stolton, S. & Dudley, N. eds. (2010) Arguments for Protected Areas: multiple benefits for conservation and use. Earthscan Ltd. London. ISBN 978-1-84407-881-3 (available as an e-book)

Vershuuren, B., Wild, R., McNeely, J.A. & Oviedo, G. (2010) Sacred Natural Sites: conserving nature and culture. Earthscan. ISBN 978-1-84971-166-1

Background:

Caughley, G and Gunn, A. (1995) Conservation Biology in Theory and Practice, Blackwell Science Inc.

Bennett, A.F. (1999) Linkages in the Landscape: The Role of Corridors and Connectivity in Wildlife Conservation. IUCN, Gland and Cambridge.

Elliott, J. & Roe, D. eds. (2010) Poverty and Biodiversity Conservation. Earthscan Ltd. London. ISBN 978-1-844407-843-1

Ingegnoli, V. (2002) Landscape Ecology: A Widening Foundation. Springer-Verlag Berlin and Heidelberg.

Koerner, C. and E. Spehn (eds.) (2002) Mountain Biodiversity: A Global Assessment. Parthenon, London.

Kunich, J. (2003) Ark of the Broken Covenant: Protecting the World's Biodiversity Hotspots. Greenwood Publications Group.

McNeely, J.A. (ed.) (1995) Expanding Partnerships in Conservation. Island Press, Washington DC.

Spellerberg, S and Sawyer, W.D. (1999) An Introduction to Applied Biogeography (Studies in Biology). Cambridge University Press.

Wilson, E.O. (1992) The Diversity of Life. Penguin, London.

Journals

Biological Conservation
Oryx
Journal of Biogeography
Landscape Ecology
Ecological Applications
Conservation Biology
Journal of Ecology

Students will be referred to on-line journals, accessible through the UHI library / journal catalogue.

g Additional background information

Tutorials will be supported by web-based learning resources and guided study provided by on-line contact (individual e-mail and computer conferencing).

h Specialist resource requirements

- internet access to web and e-mail facilities;
- access to a PC and printer;
- access to on-line library resources.