Liverpool John Moores University

Title: DIVERSITY AND EVOLUTION

Status: Definitive

Code: **4012NATSCX** (101225)

Version Start Date: 01-08-2012

Owning School/Faculty: Natural Sciences & Psychology Teaching School/Faculty: Natural Sciences & Psychology

Team	emplid	Leader
Graham Sherwood		Υ

Academic Credit Total

Level: FHEQ4 Value: 12.00 Delivered 3.00

Hours:

Total Private

Learning 120 Study: 117

Hours:

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	1.000
Off Site	1.000
Practical	1.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Phase tests	50.0	
Essay	AS2	Practical/field reports	50.0	

Aims

To provide and understanding of how life has evolved and to familiarize students with the diversity of living taxa.

Learning Outcomes

After completing the module the student should be able to:

- 1 recall the major events that have occurred during the evolution of life on Earth.
- 2 recognise the main patterns of diversity in the history of life
- 3 explain the processes of evolutionary change in living systems.
- 4 identify diagnostic features of major living and extinct taxa.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

essay	1	3
essay	2	4

Outline Syllabus

Origin of metazoans, late pre-Cambrian diversification. Garden of Ediacara, Burgess shale fauna. Colonisation of the land. Origins of vertebrates and history of vertebrate success. Origins and radiation of the reptiles. Origins and evolution of mammals. Origins and radiation of Carnivora. The fossil record of evolution in species. Macroevolution and patterns in diversity. The completeness of the fossil record. Mass extinction; process and events. The evolution of form.

Learning Activities

Lectures, practicals, field visits (Liverpool Museum and Chester Zoo). Practical work plays an important role in this module

References

Course Material	Book
Author	Cowen, R.
Publishing Year	2005
Title	History of Life
Subtitle	
Edition	
Publisher	Blackwell Publishing
ISBN	2003027993

Course Material	Book
Author	Milsom, C. & Rigby, S.
Publishing Year	2004
Title	Fossils at a Glance
Subtitle	
Edition	

Publisher	Blackwell Science	
ISBN	2002153751	

Course Material	Book	
Author	Turner, A. & Anton, M.	
Publishing Year	1997	
Title	Big cats and their fossil relatives: an illustrated guide to	
	their evolution and natural history	
Subtitle		
Edition		
Publisher	Columbia University Press	
ISBN	02311102283	

Notes

The module examines the major events and patterns of diversity in the history of life.