

Liverpool John Moores University

Title: CELL BIOLOGY
Status: Definitive
Code: **3000BELSC** (101149)
Version Start Date: 01-08-2011

Owning School/Faculty: Arts, Professional and Social Studies
Teaching School/Faculty: Bellerby's College - Brighton

Team	Leader
Jarmila Hickman	Y

Academic Level: FHEQ3 **Credit Value:** 12.00 **Total Delivered Hours:** 68.00
Total Learning Hours: 120 **Private Study:** 52

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	55.000
Practical	11.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Practical session and subsequent report (2 Hours)	25.0	
Exam	AS2	Module Examination	75.0	2.00

Aims

To provide a foundation for students proceeding onto a degree course in any areas of biological and biomedical sciences. Students should acquire an understanding of the basic structure in relation to the function of living cells, of the flow of information through the cell, and of the basic principles of metabolism.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an understanding of the key concepts outlined in the syllabus.
- 2 Demonstrate the ability to recall relevant information under test and examination conditions.
- 3 Apply information learned to new situations.
- 4 Use a range of scientific equipment with confidence under laboratory conditions.
- 5 Interpret experimental data and explain results using relevant scientific knowledge.

Learning Outcomes of Assessments

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

CW	4	5	
EXAM	1	2	3

Outline Syllabus

1. *Biological molecules*
2. *Cellular structure and function*
3. *Chromosome structure*
4. *Cell division*
5. *Movement through cell membranes*
6. *Enzymes*
7. *Metabolic pathways*

Learning Activities

Tutor-led lessons to include theory and practical work, regular formative homework assignments, class tests and terminal module examination.

References

Course Material	Book
Author	Adds, J, Larkcome, E and Miller, R
Publishing Year	2003
Title	Molecules and Cells
Subtitle	
Edition	2nd Edition
Publisher	Nelson Advanced Science
ISBN	9780748774845

Course Material	Book
Author	Jones, M, Fosbery, R and Taylor, D

Publishing Year	2000
Title	Biology 1
Subtitle	
Edition	
Publisher	Cambridge Advanced Sciences
ISBN	9780521787192

Notes

This module builds on earlier studies in Biology and provides students with information about cell structure and function. Students learn to retain relevant information and deploy it effectively in an end of module examination. They are also provided with opportunities to learn, practice and improve upon their practical skills in a laboratory environment.