

Liverpool John Moores University

Title: BIOLOGY 1
Status: Definitive
Code: **3504IFYSP** (107126)
Version Start Date: 01-08-2011

Owning School/Faculty: Liverpool Business School
Teaching School/Faculty: Liverpool Business School

| Team | Leader |
|--------------------|--------|
| Elizabeth Thompson | 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: Runs Twice - S1 & S2

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 55.000 |
| Practical | 11.000 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|---|---------------|---------------|
| Report | 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:

| | | | |
|---------------------|---|---|---|
| Report on practical | 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 |

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|------------------------|-----------------------------|
| 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.