

## Liverpool John Moores University

Title: DIAGNOSTIC APPLICATIONS IN BIOMEDICAL SCIENCE A  
Status: Definitive  
Code: **7008BMBMOL** (101508)  
Version Start Date: 01-08-2011

Owning School/Faculty: Pharmacy & Biomolecular Sciences  
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

| Team            | Leader |
|-----------------|--------|
| Lesley Walton   | Y      |
| Pat Barry       |        |
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**Academic Level:** FHEQ7      **Credit Value:** 20.00      **Total Delivered Hours:** 16.00  
**Total Learning Hours:** 200      **Private Study:** 184

### Delivery Options

Course typically offered: Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Seminar   | 4.000         |
| Tutorial  | 12.000        |

**Grading Basis:** 40 %

### Assessment Details

| Category   | Short Description | Description   | Weighting (%) | Exam Duration |
|------------|-------------------|---|---------------|---------------|
| Essay      | AS1               | A 1500 word essay on a selected topic that reflects a thorough understanding of the discipline. (25%)                         | 25.0          |               |
| Reflection | AS2               | A critical review of a recently published peer-reviewed paper that reflects current issues in the student's discipline. (25%) | 25.0          |               |
| Practice   | AS3               | A case study that indicates an appreciation of the role of the  | 25.0          |               |

| Category     | Short Description | Description   | Weighting (%) | Exam Duration |
|--------------|-------------------|---|---------------|---------------|
|              |                   | laboratory in patient diagnosis and management. (25%) |               |               |
| Presentation | AS4               | A 15 minute oral presentation (25%).                  | 25.0          |               |

## Aims

*This module aims to develop students' knowledge of their specialist discipline in biomedical science.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an understanding of their specialist discipline.
- 2 Be aware of current issues and advances in their discipline.
- 3 Appreciate the application of their discipline to diagnosis, treatment and monitoring in patient management.
- 4 Prepare and present information suitable for presentation to IBMS examiners and/or department discussion groups or seminars.

## Learning Outcomes of Assessments

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

|              |   |   |   |   |
|--------------|---|---|---|---|
| Essay        | 1 | 2 | 3 |   |
| Review       | 1 | 2 | 3 |   |
| Case study   | 1 | 2 | 3 | 4 |
| Presentation | 1 | 2 | 3 | 4 |

## Outline Syllabus

*The syllabus is defined by the subject-specific Specialist Diploma portfolios introduced in 2005 by the Institute of Biomedical Science (IBMS).*

*The Specialist Diploma portfolios are presented in seven sections. Sections 1 – 6 are concerned with the student's professional training and assessment and professional matters and will not be addressed in this module.*

*In this module (together with 7009BMBMOL) academic credit will be applied to the factual (knowledge and understanding) content of discipline-specific material in section 7 of these portfolios.*

*We will offer options in Histology, Clinical Chemistry, Haematology with Transfusion Practice and Medical Microbiology; tutorials in each option will be lead by a subject leader.*

## **Learning Activities**

Attendance is required at four tutorials and one seminar. Tutorials are led by LJMU subject leaders with some input from local biomedical scientists and pathologists working in the NHS pathology service. The seminar takes the form of individual oral presentations by the students. Learning is principally by self-study.

## **References**

## **Notes**

Reading material varies with the subject-specific tutorial topics. Most sources will be peer-reviewed papers and government websites.

Completion of this module provides support for students taking the IBMS Specialist Diploma as a route to Associate membership of the IBMS and thus provides a route to Specialist Practitioner in Biomedical Science in the UK health services. Work provided in this module complements that of 7009BMBMOL (Diagnostic applications in Biomedical Science B). The content of these two modules includes all of the factual (knowledge and understanding) material in the Specialist Portfolios. The factual content of material in section 7 will be split between 7008BMBMOL and 7009BMBMOL. Subject leaders will be responsible for delivery of this material. 7008BMBMOL and 7009BMBMOL are offered in alternate years; thus each module stands alone.