

## Liverpool John Moores University

Title: CLINICAL BACTERIOLOGY  
Status: Definitive  
Code: **6003BMBMOL** (101486)  
Version Start Date: 01-08-2011

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

Team	Leader
Katie Evans	Y
Pat Barry	

**Academic Level:** FHEQ6      **Credit Value:** 12.00      **Total Delivered Hours:** 50.00  
**Total Learning Hours:** 120      **Private Study:** 70

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	27.000
Off Site	4.000
Practical	8.000
Seminar	6.000
Tutorial	3.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	3 questions from 6.	60.0	2.00
Presentation	AS2	Seminar presentation	10.0	
Report	AS3	1 Practical report	30.0	

### Aims

*To provide a vocational understanding of clinical bacteriology for the diagnosis, treatment and prevention of human disease.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Discuss the role of microorganisms in specific organ system pathologies.
- 2 Justify the use of the clinical laboratory in the diagnosis of disease.
- 3 Justify the rational use of antibacterial chemotherapy.
- 4 Evaluate the problems caused by hospital cross infection and the emergence of antibiotic resistance.
- 5 discuss social and environmental factors responsible for the transmission of infectious disease.

## Learning Outcomes of Assessments

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

EXAM	1	2	3	4	5
PRES	1	2	3	4	5
RPT	1	2	3	4	5

## Outline Syllabus

*Collection transport and processing of clinically relevant specimens from human, animal and environmental sources.*

*Bacteria responsible for PUO, septicaemia and zoonoses. Infections of the central nervous system, gastrointestinal tract, urogenital tract, heart, skin, bones, upper and lower respiratory tracts. Obstetric, perinatal, neonatal and childhood infections.*

*The role of the clinical laboratory in therapy and therapeutic drug monitoring.*

*Sensitivity and MIC testing of clinical isolates. Causes of therapeutic failure, antibiotic prophylaxis. The emergence and problems caused by antimicrobial resistance. Antibiotic policies and the control of resistant bacteria.*

*Hospital acquired infection, monitoring and control.*

## Learning Activities

Lectures, practicals, tutorials, seminars.

## References

<b>Course Material</b>	Book
<b>Author</b>	Bannister, B.A. et al
<b>Publishing Year</b>	2000
<b>Title</b>	Infectious Disease

<b>Subtitle</b>	
<b>Edition</b>	2nd ed.
<b>Publisher</b>	Blackwell Science
<b>ISBN</b>	0-63205319-4

<b>Course Material</b>	Book
<b>Author</b>	Engleberg NC DiRita V Dermody TS
<b>Publishing Year</b>	2007
<b>Title</b>	Mechanisms of Microbial Disease
<b>Subtitle</b>	
<b>Edition</b>	4th
<b>Publisher</b>	Lippincott Williams & Wilkins
<b>ISBN</b>	9780781753425

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### Notes

A vocationally orientated module for students interested in medical microbiology as a career.