

Liverpool John Moores University

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Title: PHARMACEUTICAL SCIENCE AND PRACTICE
Status: Definitive
Code: **5006PPPHAR** (113382)
Version Start Date: 01-08-2016

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

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Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 106
Total Learning Hours: 240 **Private Study:** 134

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	40
Placement	6
Practical	36
Tutorial	4
Workshop	15

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination 1 x 1 hr law	40	1
Exam	AS3	Practical examination: extemporaneous dispensing	20	3
Portfolio	AS4	Portfolio	20	
Exam	AS2	Examination 1x1hr compounding written	20	1

Aims

To develop formulation skills necessary for the manufacture of both sterile and non-sterile products

To provide a comprehensive overview of the principal legislation necessary for the practice of pharmacy in England and Wales

To demonstrate the concepts of different types of dosage forms such as mixtures, semi-solid preparations, pessaries, suppositories and ophthalmic preparations

To demonstrate the relationship between the underpinning pharmaceutical sciences and medicinal products

Learning Outcomes

After completing the module the student should be able to:

- 1 To demonstrate competency in the general principles applicable in both sterile and non-sterile preparation areas.
- 2 To demonstrate competency in the skills required in the compounding and presentation of selected dosage forms
- 3 To show awareness of the legislation associated with the dispensing and manufacture of medicinal products
- 4 To show proficiency in pharmaceutical calculations related to compounding and formulation

Learning Outcomes of Assessments

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

Law Exam	3			
Practical Exam	1	2	3	4
Portfolio	1	2	3	4
Compounding Written Exam	1	2		

Outline Syllabus

*Good pharmaceutical practice in compounding, dispensing and manufacturing.
Formulation and compounding of dosage forms.*

An introduction to the structure of British legislation and the law relating to pharmacy: the effects of the European Communities Act 1972 on British legislation. A detailed study of the following statutes and subordinate legislation sufficient to provide a detailed working knowledge of pharmacy law:

Pharmacy Act 1954

Medicines Act 1968

Misuse of Drugs Act 1971

Poisons Act 1972

Methylated Spirits Regulations

Chemicals (Hazard Information and Packaging) Regulations 1993

A study of the effects of the following legislation on the practice of pharmacy: Data Protection Act 1984, Environmental Pollution Act 1990.

Aseptic processes, principles and evaluation of clean rooms and isolation units.

Cleaning and disinfection of clean manufacture and aseptic areas, including disciplines expected of personnel working in such areas.

Learning Activities

Lecture sessions are utilised to convey basic theoretical knowledge. This is then developed by means of workshop, tutorial and practical sessions. Practical skills are developed by means of practical exercises.

Notes

Module pass mark is 50%.

Each component (Medical Law Examination, Compounding Examination, Practical Examination and Coursework) must be passed with a minimum mark of 50%.

Pharmaceutical Calculations will be assessed as part of the coursework component with a Pass/Fail requirement of a minimum mark of 50%