

## Foundation Studies for Pharmacy 2 (Life Cycle of a Medicine)

|                |                                         |
|----------------|-----------------------------------------|
| Module Code:   | PHA4002-C                               |
| Academic Year: | 2018-19                                 |
| Credit Rating: | 30                                      |
| School:        | School of Pharmacy and Medical Sciences |
| Subject Area:  | Pharmacy                                |
| FHEQ Level:    | FHEQ Level 4                            |
| Module Leader: | Dr Ian Grimsey                          |

Additional Tutors:

Pre-requisites:

Co-requisites:

### Contact Hours

| Type                    | Hours |
|-------------------------|-------|
| Lectures                | 11.5  |
| Tutorials               | 40    |
| Laboratory              | 6     |
| Directed Study          | 237   |
| Examinations DO NOT USE | 5.5   |

### Availability Periods

| Occurrence | Location/Period                                     |
|------------|-----------------------------------------------------|
| BDA        | University of Bradford / Academic Year (Sept - May) |

### Module Aims

The module aims to introduce and familiarise you with the stages in the life cycle of a medicine.

### Outline Syllabus

Principles of drug discovery and optimisation  
Principles of drug discovery systems  
Principles and concepts of packaging and storage  
Principles and concepts of drug administration and absorption  
Principles and concepts of drug distribution, metabolism and excretion  
Concepts of compliance, adherence and concordance  
Principles of drug disposal and medicines and the environment

### **Module Learning Outcomes**

*On successful completion of this module, students will be able to...*

- 1      Apply the principles of drug discovery and optimisation to explain the life cycle of a medicine.
- 2      Apply the principles of drug delivery systems to explain the life cycle of a medicine.
- 3      Apply the principles and concepts of packaging and storage to explain the life cycle of a medicine.
- 4      Apply the principles and concepts of drug administration and absorption to explain the life cycle of a medicine.
- 5      Apply the principles and concepts of drug distribution, metabolism and excretion to explain the life cycle of a medicine.
- 6      Apply the concepts of compliance, adherence and concordance to explain the life cycle of a medicine.
- 7      Apply the principles of drug disposal and medicines and the environment to explain the life cycle of a medicine.
- 8      Apply the concepts of the clinical trials process and the regulatory framework around the testing of medicines to assure their quality, safety and efficacy to explain the life cycle of a medicine.

### **Learning, Teaching and Assessment Strategy**

Students will develop the knowledge, understanding and skills necessary to meet the learning outcomes of the module through the programme's instructional learning and teaching strategy; team-based learning. Students will study the core knowledge-based content of the module out of class; this is then assessed through a series of individual readiness assurance tests (I-Rat), which are MCQ assessments for learning taken at regular intervals throughout the academic year. Students discuss the I-Rat assessment in teams of 5-7 and retake the assessment as a team (t-Rat). In class sessions, students will apply their new knowledge to a number of formative and summative team application exercises during the academic year. Finally, students will be assessed that they can individually meet learning outcomes through a summative exam at the end of the stage. To pass the module, students will need to demonstrate a pass standard of 40% in the module overall and must also achieve at least 40% in the exam.

## Mode of Assessment

| Type      | Method                                 | Description                                                                                                          | Length  | Weighting | Final Assess' |
|-----------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|-----------|---------------|
| Summative | Other form of assessment<br>DO NOT USE | On-going auditive assessment : I-Rats (15%) t-rats (5%) Team Application Exercise (5%) and Team-work Evaluation (5%) | 0 hours | 30%       | No            |
| Summative | Examination - MCQ                      | Final MCQ & EMQ Examination must be passed at 40%                                                                    | 0 hours | 70%       | Yes           |

## Legacy Code (if applicable)

PH-1216U

## Reading List

To view Reading List, please go to [rebus:list](#).