

# This Version is No Longer Current

The latest version of this module is available here

MODULE DESCRIPTOR					
Module Title					
Drug Discovery and Design					
Reference	ASM044	Version	1		
Created	December 2018	SCQF Level	SCQF 11		
Approved	May 2019	SCQF Points	15		
Amended		ECTS Points	7.5		

#### **Aims of Module**

To enable students to critically understand and evaluate aspects of drug design and the drug discovery process.

### **Learning Outcomes for Module**

On completion of this module, students are expected to be able to:

- 1 Critically evaluate and understand modern and historic approaches to drug discovery.
- 2 Critically discuss the chemical and physical properties of organic functional groups with respect to drug design and critically review the 'drug journey'.
- 3 Critically evaluate and analyse organo-synthetic and spectroscopic characterisation data.

### **Indicative Module Content**

A history of drug discovery; medicinal chemistry; an overview of the drug discovery process; natural products as pharmaceutical lead compounds; SAR studies; bench to clinic case studies.

## **Module Delivery**

The module will be delivered by lectures and tutorials, including visiting speakers. There will also be practical laboratory sessions.

Indicative Student Workload	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

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#### **ASSESSMENT PLAN**

If a major/minor model is used and box is ticked, % weightings below are indicative only.

### **Component 1**

Type: Coursework Weighting: 100% Outcomes Assessed: 1, 2

Description: A critical review of the drug discovery and design process.

#### **Component 2**

Type: Coursework Weighting: 0% Outcomes Assessed: 3

Description: Successful completion of a laboratory book, detailing and recording data from laboratory sessions.

This is a competency based assessment graded pass (P)or fail/unsuccessful (U).

#### **MODULE PERFORMANCE DESCRIPTOR**

#### **Explanatory Text**

To pass this module the student must achieve a grade D or better. The grading criteria are:

Module Grade	Minimum Requirements to achieve Module Grade:
Α	A mark of 70% or greater for C1 and a P in C2.
В	A mark of between 60-69% for C1 and a P in C2.
С	A mark of between 50-59% for C1 and a P in C2.
D	A mark of between 40-49% for C1 and a P in C2.
E	A mark of between 35-39% for C1 and a P in C2.
F	A mark of less than 35% for C1 and/or a U in C2.
NS	Non-submission of work by published deadline or non-attendance for examination

## **Module Requirements**

Prerequisites for Module None, in addition to course entry requirements.

Corequisites for module None.

Precluded Modules None.

### **INDICATIVE BIBLIOGRAPHY**

- 1 Patrick, G.L., (2017). 'An introduction to medicinal chemistry', 6th edition, Oxford University Press.
  - Afonso, C., Candeias, N., Simao, D., Trindade, A., Coelho, J., Tan, B. and Franzen, R. (2017).
- 2 'Comprehensive organic chemistry experiments for the laboratory classroom', Cambridge: Royal Society of Chemistry.