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Title: INTEGRATED APPROACHES TO THERAPEUTICS
 Status: Definitive
 Code: **5006PHASCI** (122598)
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Owning School/Faculty: Pharmacy & Biomolecular Sciences
 Teaching School/Faculty: Pharmacy & Biomolecular Sciences

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Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 62
Total Learning Hours: 200 **Private Study:** 138

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	28
Tutorial	5
Workshop	27

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Final written examination	60	2
Essay	Essay	Critical evaluation coursework essay	40	

Aims

To understand how the underpinning pharmaceutical science disciplines can be applied in an integrated way to develop good therapeutic strategies for treating diseases.

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply the concepts and principles of chemistry, pharmaceutics and pharmacology to propose solutions to problems in other therapeutic topic areas
- 2 Critically evaluate different methods and techniques for optimising therapeutic approaches in a given example scenario or scenarios
- 3 Communicate an informed opinion/argument in support of a chosen strategy to improve or solve a therapeutic problem

Learning Outcomes of Assessments

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

Exam	1	
Critical evaluation essay	2	3

Outline Syllabus

The outline syllabus of content will include:

- *Integration of medicinal and pharmacological aspects of drug:receptor binding*
- *Consideration of the problems associated with desirable pharmacological properties vs. difficult patient administration or bioavailability*
- *The introduction of disease states, as examples of therapeutic problems*
- *Exploring how experimental ideas might be translated to practice in order to improve therapeutic strategies*

Learning Activities

Lectures
Workshops
Tutorials
Self-directed independent study

Notes

Students will integrate knowledge learned in pre-requisite level 4 and level 5 (Semester 1) modules, and co-requisite level 5 semester 2 modules in the context of

therapeutic topics not yet covered in the programme, in order to critically evaluate the appropriateness of therapeutic strategies in given scenarios or identified in the published literature. Students will also use their knowledge and skills to develop strategies to solve therapeutic problems, and form an argument to make the case for their chosen strategies drawing on known principles, published literature and available evidence to demonstrate their reasoning.

Therapeutic topics areas (disease states) which have not yet been explored during the taught programme will be used to allow students to apply their knowledge, giving them the opportunity to show important skills that would be directly applicable and transferable to the workplace.

In order to support students in preparing for summative assessment 1 (CW essay), students will work in small groups in the early stages of inquiry building up to the preparation of a formative poster assessment summarising their ideas and decisions. Following this (and feedback) groups will disband and each student will write an individual essay as their summative assignment, to further refine their work and demonstrate individual ability in meeting the learning outcomes.

Workshops will be used to allow and support students to apply knowledge to therapeutic problems in given scenarios, promoting the development of team-working skills to design strategies for problem solving and critique of alternative approaches.

Students will communicate their opinions, arguments and rationale in small groups and as individuals, both verbally and in writing, to demonstrate their ability to inform others of their ideas, decision-making and problem-solving skills.