

Module Title:	Current Trends in Biopharmaceutical Technology
Language of Instruction:	English
Credits:	5
NFQ Level:	8
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	Teaching and Learning Strategy will involve a departure from the traditional powerpoint lecture format to a structured Q & A interaction with national and international speakers, from both Industry and Academia in a weekly two hour format over a semester. In this module the student will not be passive but will engage in a dynamic learning environment whereby the learners actively construct knowledge through interaction with experts in the biopharma field. The academics will facilitate, guide and support the learner to fully engage with this constructivist approach.
Module Aim:	This module aims to inform students of the current important and topical trends in biopharmaceutical manufacturing. A feature of the module will be the incorporation of guest speakers from the Biopharma industry to deliver highly structured presentations to students in a non-lecture style delivery. This approach will extend to talks by academic staff and previous graduates to students using a similar structured style including question and answer time. Students will also decide on selected topics to bring to the class environment in student led scenario's assisted by academic staff.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Construct coherent arguments or explain current concepts and articulate ideas clearly to a range of audiences, formally and informally, through a variety of communication techniques.
LO2	Select and review appropriate scientific and company literature using relevant scientific journals and library databases
LO3	Explain the key drivers for change in modern biopharmaceutical production
LO4	Interact with stakeholders and other external speakers demonstrating a high level of ethical, social, scientific, entrepreneurial and wider professional conduct
LO5	Communicate an in-depth knowledge of various selected topics and trends in the biopharmaceutical sector
Pre-requisite learning	
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content	
Selected topics in Biopharmaceutical Technology Syllabus content will centre on topical and industrially relevant aspects of Biopharmaceutical manufacturing, including cell line technology, bioprocessing, protein therapeutics, Immunobiologics and sterile manufacturing.	
Internal & External Industry expert speakers Areas covered will evolve from talks delivered by invited speakers. In addition research and development discussed in this module will link to the research activities of third level academic staff in enviroCORE and further afield.	
Work Placement During time allocated for this module, the learner will undertake further preparatory work to define and arrange their Semester 3 placement if required.	
Assessment Breakdown	%
Continuous Assessment	70.00%
Project	30.00%

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	Every Week	2.00
Independent Learning	15 Weeks per Stage	6.33
Work - based Learning	Every Week	6.00
Total Hours		103.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SABTP_B	Bachelor of Science (Honours) in Biosciences with Biopharmaceuticals	8	Mandatory