

APPROVED



Institiúid Teicneolaíochta Chorcaí  
Cork Institute of Technology

<b>Awards</b>	
BSc	
<b>Programme Code:</b>	CR_SBIBI_7
<b>Mode of Delivery:</b>	Full Time
<b>No. of Semesters:</b>	6
<b>NFQ Level:</b>	7
<b>Embedded Award:</b>	No
<b>Programme Credits:</b>	180
<b>programmeReviewDate:</b>	March 2022
<b>Department:</b>	BIOLOGICAL SCIENCES - CORK
<b>Field of Study:</b>	Microbiology

## Programme Outcomes

Upon successful completion of this programme the graduate will be able to demonstrate... :

<b>PO1</b>	Knowledge - Breadth
(a)	A specialised knowledge of biosciences with particular relevance to the area of biotechnology.
<b>PO2</b>	Knowledge - Kind
(a)	Familiarity with and ability to critique current theory in the field of biotechnology and biosciences; and the ability to integrate theory with practical skills.
<b>PO3</b>	Skill - Range
(a)	The ability to gather information from a variety of sources, analyse and evaluate evidence and present a clear conclusion in written and oral forms.
<b>PO4</b>	Skill - Selectivity
(a)	The ability to plan, design and participate in the research process.
<b>PO5</b>	Competence - Context
(a)	The ability to use practical and professional skills appropriate to the area of biosciences.
<b>PO6</b>	Competence - Role
(a)	The ability to work autonomously and as a member of a team and to supervise staff in a well-defined work setting.
<b>PO7</b>	Competence - Learning to Learn
(a)	The ability to identify and address learning needs at the professional and personal levels in the workplace.
<b>PO8</b>	Competence - Insight
(a)	The ability to analyse the context in which biosciences and in particular Biotechnology operates, and the need for high ethical standards its practice, in particular towards people and the environment.

## Semester Schedules

### Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
CMOD6001	<a href="#">Creativity Innovation&amp;Teamwork</a>
CHEM6011	<a href="#">Biological Chemistry 1</a>
BIOL6003	<a href="#">Laboratory Operations</a>
BIOL6007	<a href="#">Biomolecules and Cells</a>
MATH6056	<a href="#">Maths for Biological Sciences</a>
PHOL6006	<a href="#">Human Anatomy and Physiology</a>

### Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
CHEM6009	<a href="#">Biological Chemistry 2</a>
STAT6013	<a href="#">Biostatistics and Probability</a>
BIOM6001	<a href="#">Microbes, Enzymes &amp; Energy</a>
BIOT6001	<a href="#">Introduction to Biotechnology</a>
PHYS6044	<a href="#">Heat and Light</a>

  

Elective	
Module Code	Module Title
FOOD6001	<a href="#">Science of Food and Health</a>
FREE6001	<a href="#">Free Choice Module</a>

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
BIOL6024	<a href="#">Structural Biochemistry</a>
BIOT6002	<a href="#">Immunoanalysis</a>
BIOM6006	<a href="#">Microbial Diversity</a>
BIOL6026	<a href="#">Introduction to Pharmacology</a>
BIOL6025	<a href="#">Human Nutrition</a>
Elective	
Module Code	Module Title
FOOD6006	<a href="#">Culinary Nutrition</a>
BIOT6011	<a href="#">Computational Biology</a>
AGRI6020	<a href="#">Animal and Crop Science</a>
FREE6001	<a href="#">Free Choice Module</a>

Stage 2 / Semester 2

Mandatory	
Module Code	Module Title
BIOM6007	<a href="#">Bacteriology</a>
BIOL6017	<a href="#">Metabolic Biochemistry</a>
BIOL6023	<a href="#">Introductory Cell Biology</a>
BIOT7002	<a href="#">Bioanalytical Techniques</a>
BIOT6005	<a href="#">Introduction to Quality System</a>
Elective	
Module Code	Module Title
BIOL7018	<a href="#">Nutritional Analysis</a>
BIOT7013	<a href="#">Upstream Bioprocessing</a>
FREE6001	<a href="#">Free Choice Module</a>

Stage 3 / Semester 1

Mandatory	
Module Code	Module Title
BIOT7011	<a href="#">Pharma Analytics</a>
GENE7002	<a href="#">Molecular Biology</a>
BIOL7001	<a href="#">Applied Enzymology</a>
BIOM7001	<a href="#">Analytical Microbiology</a>
BIOT7003	<a href="#">Industrial Biotechnology</a>
Elective	
Module Code	Module Title
MANU7007	<a href="#">Validation Science</a>
FREE6001	<a href="#">Free Choice Module</a>

Stage 3 / Semester 2

Mandatory	
Module Code	Module Title
PLAC7001	<a href="#">Biosciences Placement</a>
ENVI7001	<a href="#">Environmental Sc &amp; Ind Hygiene</a>
BIOT7004	<a href="#">BioPharma Quality Management</a>
BIOT7001	<a href="#">Applied Biotechnology</a>