



Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

APPROVED

Awards	
BSc (Hons)	
Programme Code:	CR_SAGBI_8
Mode of Delivery:	Full Time
No. of Semesters:	8
NFQ Level:	8
Embedded Award:	No
Programme Credits:	240
programmeReviewDate:	September 2022
Department:	BIOLOGICAL SCIENCES - CORK
Field of Study:	Biochemistry & Cell Biology

Programme Outcomes

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

PO1	Knowledge - Breadth
(a)	A comprehensive knowledge of the theory, concepts and methods related to biosciences with particular relevance to the agri-food sector
PO2	Knowledge - Kind
(a)	The ability to link the theoretical knowledge of subject areas to the practical skills required to test, interpret and critically analyse data.
PO3	Skill - Range
(a)	A range of specialised skills relevant to animal science and the agri-food industries including analytical, IT and communication skills.
PO4	Skill - Selectivity
(a)	The ability to manage and evaluate complex problems related to agri-food industries and exercise appropriate judgement in such situations.
PO5	Competence - Context
(a)	The ability to use advanced research, analytical and problem-solving skills in a professional and accountable manner in a wide range of contexts within the areas of agri-food and biotechnology.
PO6	Competence - Role
(a)	The ability to work ethically and professionally as an individual or as a member of a multidisciplinary team, with the capacity for leadership and innovation.
PO7	Competence - Learning to Learn
(a)	The ability to evaluate, articulate and defend learning needs at the professional and personal level.
PO8	Competence - Insight
(a)	The ability to evaluate, articulate and defend the need for high ethical standards in professional practice.

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
CMOD6001	Creativity Innovation&Teamwork
MATH6056	Maths for Biological Sciences
CHEM6011	Biological Chemistry 1
BIOL6007	Biomolecules and Cells
PHOL6007	Animal & Plant Physiology
BIOL6003	Laboratory Operations

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
BIOM6001	Microbes, Enzymes & Energy
AGRI6025	Agri-Food Production
CHEM6009	Biological Chemistry 2
STAT6013	Biostatistics and Probability
PHYS6044	Heat and Light

Elective	
Module Code	Module Title
BIOT6001	Introduction to Biotechnology
FREE6001	Free Choice Module

Stage 2 / Semester 1

Mandatory	
Module Code	Module Title
BIOM6006	Microbial Diversity
BIOL6024	Structural Biochemistry
BIOT6002	Immunoanalysis
AGRI6021	Soil Science
BIOT6008	Environmental Biotechnology
Elective	
Module Code	Module Title
BIOT6012	Mammalian Biotechnology
FREE6001	Free Choice Module

Stage 2 / Semester 2

Mandatory	
Module Code	Module Title
BIOT6005	Introduction to Quality System
BIOT6013	Agri-Biotechnology
BIOM6007	Bacteriology
BIOL6017	Metabolic Biochemistry
BIOT7002	Bioanalytical Techniques
Elective	
Module Code	Module Title
BIOT6011	Computational Biology
FREE6001	Free Choice Module

Stage 3 / Semester 1

Mandatory	
Module Code	Module Title
BIOT7015	Crop Biotechnology
GENE7002	Molecular Biology
BIOL7030	Animal Nutrition
FOOD7007	Agri-Food Quality Systems
FOOD7006	Food Analytics
Elective	
Module Code	Module Title
BIOM7009	Microbial Ecosystems
FREE6001	Free Choice Module

Stage 3 / Semester 2

Mandatory	
Module Code	Module Title
PLAC7019	Agri-Biosciences Placement

Stage 4 / Semester 1

Mandatory	
Module Code	Module Title
AGRI8013	Crop Pathology
FOOD8005	Food Regulation and Compliance
BIOL8027	Immunology and Infection
BIOT8011	Biosciences Literature Review
AGRI8016	Animal Welfare Strategies
Elective	
Module Code	Module Title
BIOT8017	Genomics & Bioinformatics
FREE6001	Free Choice Module

Stage 4 / Semester 2

Mandatory	
Module Code	Module Title
BIOL8028	Animal Reproduction
BIOT8018	Biosciences Project
BIOM8012	Microbial Interactions
BIOL8029	Veterinary Diagnostics
GENE8003	Quantitative Genetics