

Overview

Year 1	Year 2	Year 3	Year 4
[60 Credits]	[60 Credits]	[60 Credits]	[60 Credits]
There are 60 credits of Core modules.	There are 20 credits of Core modules. Choose 2 pathways to a total value of 40 credits: Anatomy Biochemistry Pharmacology Physiology	There are 15 credits of Core modules. Choose two optional modules to a value of 10 ECTS: (Enrolment in an elective is subject to having the pre-requisites, space in the module and timetable compatibility) one of: Neuroanatomy or Developmental Biology or Introduction to Toxicology or Endocrine Control of Homeostasis and Reproduction Mathematical Molecular Biology I and one of: Immunology Introduction to Bioinformatics or Human Reproductive Anatomy or Neuropharmacology or Mathematical Molecular Biology II Choose one Pathway to a value of 35 credits: Anatomy Biochemistry Pharmacology Physiology	Choose one module to a value of 5 Credits: Modern Biotechnologies Advanced Technologies for Therapeutics Anatomy for Clinical Needs Choose one Pathway to a value of 55 credits: Anatomy Biochemistry Pharmacology Physiology

BSc Biomedical Science

Year 1		Year 2	Year 3	Year 4
[Core:	60 credits]	[Core: 20 credits; Pathways: 40 credits]	[Core: 15 credits; Options: 10 credits; Pathway: 35 credits]	[Options: 5 credits; Pathway: 55 credits]
	Introduction to Biomedical Research [5] Biomedical Debates [5] Biology [15] Chemistry: Molecular Science [15] Physics [15]	Semester 1 BO201 Molecular and Cellular Biology [5] BI208 Protein Structure and Function [5] Semester 2 BM202 Biomedical Seminars [5] BM204 Community Knowledge Initiative Programme [5]	Semester 1 ST314 Introduction to Biostatistics [5] Research Methods in Biomedical Science [5] AN326 Neuroanatomy [5]* Developmental Biology [5]* Introduction to Toxicology [5]* SI3107 Endocrine Control of Homeostasis and Reproduction [5]* MA215 Mathematical Molecular Biology I[5]* Semester 2 BM406 Applications of Biomedical Science [5] AN3109 Human Reproductive Anatomy [5]* Introduction to Bioinformatics [5]* MA216 Mathematical Molecular Biology II [5]* Neuropharmacology [5]* Immunology [5]*	Semester 1 BI448 Modern Biotechnologies [5]* Semester 2 PM435 Advanced Technologies for Therapeutics [5]* AN4110 Anatomy for Clinical Needs [5]*
			*Select one 5-credit optional module in Semester 1 and one 5-credit optional module in Semester 2. Enrolment in an elective is subject to having the pre-requisites, space in the module and timetable compatibility.	*Select one 5-credit optional module. Enrolment in an elective is subject to having the pre-requisites, space in the module and timetable compatibility.

BSc Biomedical Science - Anatomy Pathway College of Science and Engineering, University of Galway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 20 credits]	[Pathway: 35 credits]	[Pathway: 55 credits]
	Semester 1 AN2101 Cells and Tissues [10] Semester 2 AN223 Embryology & Development [5] AN226 Systems Histology [5]	AN3105 Gross Anatomy I [10] AN326 Neuroanatomy [5] Semester 2 AN325 Anatomy Research Mini Project [5] AN3106 Gross Anatomy II [10] AN3109 Human Reproductive Anatomy [5]	AN4101 Gross Anatomy III [10] AN4103 Microscopy and Imaging [10] AN410 Physical Anthropology [5] AN4109 Research and Communication Skills in Anatomy [5] Semester 2 AN4107 Anatomy of the Head and Neck [5] AN444 Research Project [20]

BSc Biomedical Science – Biochemistry Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 10 credits; Options: 10 credits]	[Pathway: 35 credits]	[Pathway: 55 credits]
	Select 10 credits from another pathway: Anatomy AN2101 Cells and Tissues [10]* Pharmacology PM209 Applied Concepts in Pharmacology [5]* Fundamental Concepts in Pharmacology [5]* Physiology S12101 Introductory Physiology [10]* Semester 2 B1206 Gene Technologies and Molecular Medicine [5] B1207 Metabolism and Cell Signalling [5]	Bigon Cell Biology [5] Bognor Developmental Biology [5] Bigon Molecular Biology [5] Semester 2 Bigon Biochemistry Research Mini Project [5] Bignor Human Molecular Genetics [5] Bignor Protein Biochemistry [5]	Full Year – Semester 1 and Semester 2 BI453 Biochemistry Research Project [15] BI446 Current Topics in Bioscience [5] BI447 Literature Review and Presentation [10] Semester 1 BI445 Biomolecules [5] BI452 Biochemistry Principles and Experimental Design [5] Semester 2 BI429 Advanced Chromosome Biology [5] BI449 Molecular and Cellular Biology [5] BI451 Research Paper Analysis [5]
	* Select modules to a value of 10 credits from another pathway		

BSc Biomedical Science – Pharmacology Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 20 credits]	[Pathway: 35 credits]	[Pathway: 55 credits]
	[Pathway: 20 credits] Semester 1 PM209	[Pathway: 35 credits] Semester 1 PM309 Drugs and Disease I [10] PM311 Introduction to Toxicology [5] Semester 2 PM3103 Advanced Pharmacology [5] PM3102 Neuropharmacology [5] PM3101 Pharmacology in Practice [5] PM325 Pharmacology Research Mini Project [5]	[Pathway: 55 credits] Semester 1 PM432 Experimental Pharmacology [10] PM431 Research Project [20] Semester 2 PM436 Advanced Toxicology [5] PM433 Drug Development and Emerging Therapies [10] PM434 Molecular Pharmacology and Therapeutics [10]

BSc Biomedical Science – Physiology Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 20 credits]	[Pathway: 35 credits]	[Pathway: 60 credits]
	Semester 1 SI2101 Introductory Physiology [10] Semester 2 SI2102 Systems Physiology [10]	Full Year – Semester 1 and Semester 2 SI3104 Experimental Physiology [10] Semester 1 SI3103 Endocrinology & Reproduction [5] Neurophysiology [5] Semester 2 SI3105 Cardiorespiratory Physiology [5] SI325 Physiology Research Mini Project [5] SI3106 Immunology [5]	Semester 1 SI4105 Communication Skills [10] SI4103 Integrative Physiology [10] SI4104 Pathophysiology of Disease [10] Semester 2 SI435 Research Project [20] SI4106 Therapeutics of Disease [10]