



NUI Galway
OÉ Gaillimh

College of Science

Fullscreen

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BSc BIOMEDICAL SCIENCE



www.nuigalway.ie/science

Overview

Year 1	Year 2	Year 3	Year 4
[60 credits]	[60 credits]	[60 credits]	[60 credits]
There are 60 credits of Core modules.	<p>There are 20 credits of Core modules.</p> <p>Choose 2 pathways to a total value of 40 credits:</p> <ul style="list-style-type: none"> Anatomy Biochemistry Pharmacology Physiology 	<p>There are 20 credits of Core modules.</p> <p>Choose one Research Mini Project to a value of 5 credits:</p> <ul style="list-style-type: none"> Anatomy Research Mini Project Biochemistry Research Mini Project Pharmacology Research Mini Project Physiology Research Mini Project <p>Choose one optional module to a value of 5 credits:</p> <ul style="list-style-type: none"> Developmental Biology Human Nutrition <p>Choose one Pathway to a value of 30 credits:</p> <ul style="list-style-type: none"> Anatomy Biochemistry Pharmacology Physiology 	<p>There are 5 credits of Core modules.</p> <p>Choose one module to a value of 5 Credits:</p> <ul style="list-style-type: none"> Modern Biotechnologies Advanced Technology Therapeutics Immunology Clinical Neuroimaging & Radiological Anatomy <p>Choose one Pathway to a value of 50 credits:</p> <ul style="list-style-type: none"> 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: 20 credits; Options: 10 credits; Pathway: 30 credits]	[Core: 5 credits; Options: 5 credits; Pathway: 50 credits]
<p><u>Full Year – Semester 1 and Semester 2</u></p> <p>BO101 Biology [15]</p> <ul style="list-style-type: none"> • Continuous Assessment - Summer • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) <p>CH120 Chemistry: Molecular Science [15]</p> <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) <p>PH101 Physics [15]</p> <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) <p><u>Semester 1</u></p> <p>BM110 Introduction to Science Communication [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>-----</p> <p><u>Semester 2</u></p> <p>BM112 Biomedical Debates [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>BM111 Introduction to Biomedical Research [5]</p> <ul style="list-style-type: none"> • Departmental Assessment 	<p><u>Semester 1</u></p> <p>BO201 Molecular and Cellular Biology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>BI208 Protein Structure and Function [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>BM202 Biomedical Seminars [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>BM204 Community Knowledge Initiative Programme [5]</p> <ul style="list-style-type: none"> • Continuous Assessment 	<p><u>Semester 1</u></p> <p>BO3101 Developmental Biology [5]*</p> <ul style="list-style-type: none"> • Written Paper <p>BI318 Human Nutrition [5]*</p> <ul style="list-style-type: none"> • Written Paper <p>ST314 Introduction to Biostatistics [5]</p> <ul style="list-style-type: none"> • Written Paper <p>BM3101 Research Methods in Biomedical Science [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>-----</p> <p><u>Semester 2</u></p> <p>AN325 Anatomy Research Mini Project [5]*</p> <ul style="list-style-type: none"> • Departmental Assessment <p>BI325 Biochemistry Research Mini Project [5]*</p> <ul style="list-style-type: none"> • Departmental Assessment <p>BI317 Human Molecular Genetics [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>MA324 Introduction to Bioinformatics [5]</p> <ul style="list-style-type: none"> • Written Paper <p>PM325 Pharmacology Research Mini Project [5]*</p> <ul style="list-style-type: none"> • Departmental Assessment <p>SI325 Physiology Research Mini Project [5]*</p> <ul style="list-style-type: none"> • Departmental Assessment 	<p><u>Full Year – Semester 1 and Semester 2</u></p> <p>BM406 Applications of Biomedical Science [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p><u>Semester 1</u></p> <p>SI408 Immunology [5]*</p> <ul style="list-style-type: none"> • Written Paper <p>BI448 Modern Biotechnologies [5]*</p> <ul style="list-style-type: none"> • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>PM435 Advanced Technologies for Therapeutics [5]*</p> <ul style="list-style-type: none"> • Written Paper <p>AN4104 Clinical Neuroimaging & Radiological Anatomy [5]*</p> <ul style="list-style-type: none"> • Departmental Assessment • Computer Based Exam
		* Select one 5-credit optional module in Semester 1 and one 5-credit Research Mini-Project option in Semester 2.	* Select one 5-credit optional module

BSc Biomedical Science – Anatomy Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 20 credits]	[Pathway: 30 credits]	[Pathway: 50 credits]
	<p><u>Semester 1</u></p> <p>AN2101 Cells and Tissues [10]</p> <ul style="list-style-type: none"> • Continuous Assessment • Departmental Assessment • Written Paper 1 <p>-----</p> <p><u>Semester 2</u></p> <p>AN223 Embryology & Development [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>AN226 Systems Histology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 	<p><u>Semester 1</u></p> <p>AN3105 Gross Anatomy I [10]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper <p>AN326 Neuroanatomy [5]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>AN3106 Gross Anatomy II [10]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper <p>AN327 Head and Neck Practical [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Practical 	<p><u>Semester 1</u></p> <p>AN440 Advanced Neuroanatomy [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Departmental Assessment <p>AN4101 Gross Anatomy III [10]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>AN4103 Microscopy and Imaging [10]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>AN445 Scientific Writing [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>-----</p> <p><u>Semester 2</u></p> <p>AN444 Research Project [20]</p> <ul style="list-style-type: none"> • Thesis • Oral Presentations • Supervisor's Report

BSc Biomedical Science – Biochemistry Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 10 credits; Options: 10 credits]	[Pathway: 25 credits; Options: 5 credits]	[Pathway: 50 credits]
	<p>Semester 1 Select 10 credits from another pathway:</p> <p>Anatomy</p> <p>AN2101 Cells and Tissues [10]* <ul style="list-style-type: none"> Continuous Assessment Departmental Assessment Written Paper 1 </p> <p>Pharmacology</p> <p>PM209 Applied Concepts in Pharmacology [5]* <ul style="list-style-type: none"> Written Paper </p> <p>PM208 Fundamental Concepts in Pharmacology [5]* <ul style="list-style-type: none"> Written Paper </p> <p>Physiology</p> <p>SI206 Introduction to Physiology and Gastrointestinal [5]* <ul style="list-style-type: none"> Continuous Assessment Departmental Assessment Written Paper </p> <p>SI207 Nerve and Muscle [5]* <ul style="list-style-type: none"> Continuous Assessment Departmental Assessment Written Paper </p> <p>-----</p> <p>Semester 2</p> <p>BI206 Gene Technologies and Molecular Medicine [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p> <p>BI207 Metabolism and Cell Signalling [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p>	<p>Semester 1</p> <p>BI309 Cell Biology [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p> <p>BO3101 Developmental Biology [5]* <ul style="list-style-type: none"> Written Paper </p> <p>BI318 Human Nutrition [5]* <ul style="list-style-type: none"> Written Paper </p> <p>BI319 Molecular Biology [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p> <p>-----</p> <p>Semester 2</p> <p>BI313 Cell Signalling [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p> <p>MI324 Immunology and Recombinant Technologies [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p> <p>BI321 Protein Biochemistry [5] <ul style="list-style-type: none"> Continuous Assessment Written Paper </p>	<p>Full Year – Semester 1 and Semester 2</p> <p>BI453 Biochemistry Research Project [15] <ul style="list-style-type: none"> Project (Summer) Thesis Minor (Summer) </p> <p>BI446 Current Topics in Bioscience [5] <ul style="list-style-type: none"> Written Paper (Summer) </p> <p>BI447 Literature Review and Presentation [10] <ul style="list-style-type: none"> Departmental Assessment (Summer) Thesis Minor (Summer) </p> <p>Semester 1</p> <p>BI445 Biomolecules [5] <ul style="list-style-type: none"> Written Paper </p> <p>-----</p> <p>Semester 2</p> <p>BI429 Advanced Chromosome Biology [5] <ul style="list-style-type: none"> Written Paper </p> <p>BI449 Molecular and Cellular Biology [5] <ul style="list-style-type: none"> Written Paper </p> <p>BI451 Research Paper Analysis [5] <ul style="list-style-type: none"> Written Paper </p>
	* Select modules to a value of 10 credits from another pathway	*Select one 5-credit optional module	

BSc Biomedical Science – Pharmacology Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 20 credits]	[Pathway: 30 credits]	[Pathway: 50 credits]
	<p><u>Semester 1</u></p> <p>PM209 Applied Concepts in Pharmacology [5]</p> <ul style="list-style-type: none"> • Written Paper <p>PM208 Fundamental Concepts in Pharmacology [5]</p> <ul style="list-style-type: none"> • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>PM210 Molecular Pharmacology and Signalling [10]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper 	<p><u>Semester 1</u></p> <p>PM309 Drugs and Disease I [10]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 1 • Written Paper 2 <p>PM311 Introduction to Toxicology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>PM312 Applied Pharmacology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>PM310 Drugs and Disease II [10]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 1 • Written Paper 2 	<p><u>Semester 1</u></p> <p>PM432 Experimental Pharmacology [10]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 1 • Written Paper 2 <p>PM431 Research Project [20]</p> <ul style="list-style-type: none"> • Project <p>-----</p> <p><u>Semester 2</u></p> <p>PM433 Drug Development and Emerging Therapies [10]</p> <ul style="list-style-type: none"> • Continuous Assessment <p>PM434 Molecular Pharmacology and Therapeutics [10]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper

BSc Biomedical Science – Physiology Pathway

Year 1	Year 2	Year 3	Year 4
	[Pathway: 20 credits]	[Pathway: 30 credits]	[Pathway: 50 credits]
	<p><u>Semester 1</u></p> <p>SI206 Introduction to Physiology and Gastrointestinal [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Departmental Assessment • Written Paper <p>SI207 Nerve and Muscle [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Departmental Assessment • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>SI208 Cardiovascular Physiology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Departmental Assessment • Written Paper <p>SI212 Respiratory Physiology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Departmental Assessment • Written Paper 	<p><u>Full Year – Semester 1 and Semester 2</u></p> <p>SI329 Laboratory Methods in Physiology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Computer Based Exam <p><u>Semester 1</u></p> <p>SI326 Advanced Cardiovascular Physiology [5]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper <p>SI312 Endocrinology [5]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper <p>SI311 Neurophysiology [5]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper <p>-----</p> <p><u>Semester 2</u></p> <p>SI328 Exercise Physiology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>SI331 Renal Physiology [5]</p> <ul style="list-style-type: none"> • Departmental Assessment • Written Paper 	<p><u>Semester 1</u></p> <p>SI438 Advanced GIT [5]</p> <ul style="list-style-type: none"> • Written Paper <p>SI422 Advanced Neurophysiology [5]</p> <ul style="list-style-type: none"> • Written Paper <p>SI437 Reproduction and Aging [5]</p> <ul style="list-style-type: none"> • Written Paper <p>SI436 Therapeutics [5]</p> <ul style="list-style-type: none"> • Departmental Assessment <p>-----</p> <p><u>Semester 2</u></p> <p>SI4101 Case Based Physiology [5]</p> <ul style="list-style-type: none"> • Continuous Assessment • Written Paper <p>SI432 Pathophysiology [5]</p> <ul style="list-style-type: none"> • Written Paper <p>SI435 Research Project [20]</p> <ul style="list-style-type: none"> • Departmental Assessment • Project