



NUI Galway
OÉ Gaillimh

College of Science

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BSc BIOTECHNOLOGY



www.nuigalway.ie/science

Overview

Year 1	Year 2	Year 3	Year 4
[60 credits]	[60 credits]	[60 credits]	[60 credits]
<p>There are 55 credits of Core modules.</p> <p>Choose one module to a value of 5 credits:</p> <ul style="list-style-type: none"> French for Biotechnology I German for Biotechnology I 	<p>There are 55 credits of Core modules.</p> <p>Choose one module to a value of 5 Credits:</p> <ul style="list-style-type: none"> French for Biotechnology II German for Biotechnology II 	<p>There are 25 credits of Core modules.</p> <p>Choose one module to a value of 5 credits:</p> <ul style="list-style-type: none"> French for Biotechnology III German for Biotechnology III <p>Placement Option: 30 credits Students assigned to the Placement Option must take:</p> <ul style="list-style-type: none"> Biotechnology Placement Experience Biotechnology Skills for Placement <p>On-Campus Option: 30 credits Students assigned to the On-Campus Option must take:</p> <ul style="list-style-type: none"> Biotechnology Skills with French/German III Human Molecular Genetics Plant and Agricultural Genetics Immunology and Recombinant Techniques Protein Biochemistry <p>Plus one of:</p> <ul style="list-style-type: none"> Cell Signalling Environmental Microbiology 	<p>There are 55 Credits of core modules.</p> <p>Choose one module to a value of 5 credits:</p> <ul style="list-style-type: none"> Bioprocessors & Recombinant Protein Production Plant and Agri-Biotechnologies
<p>Module Descriptors for Years 1 to 4 are available at: http://www.nuigalway.ie/science/undergraduate-courses/biotechnology/#course_outline</p>			

BSc Biotechnology

Year 1	Year 2	Year 3	Year 4
[Core: 55 credits; Options: 5 credits]	[Core: 55 credits; Options: 5 credits]	[Core: 25 Credits; Options: 35 credits]	[Core: 55 credits; Options: 5 credits]
<i>Full Year – Semester 1 and Semester 2</i>	<i>Full Year – Semester 1 and Semester 2</i>	<i>Semester 1</i>	<i>Full Year – Semester 1 and Semester 2</i>
BO101 Biology [15]	FR216 French for Biotechnology II [5]*	BI309 Cell Biology [5]	BI452 Biochemistry Principles and Experimental Design [5]
BG110 Biotechnology I [5]	GR241 German for Biotechnology II [5]*	MI323 Food and Industrial Microbiology [5]	BI453 Biochemistry Research Project [15]
BG111 Biotechnology Skills with French/German [5]	<i>Semester 1</i>	FR364 French for Biotechnology III [5]*	MI442 Bioprocessors and Recombinant Protein Production [5]*
BG1101 Employability for Biotechnology [5]	BG204 Biotechnology Skills with French/German II [5]	PM208 Fundamental Concepts in Pharmacology [5]	BI447 Literature Review and Presentation [10]
CH130 Chemistry: The World of the Molecule [15]	MI202 Laboratory Skills in Microbiology I [5]	GR358 German for Biotechnology III [5]*	<i>Semester 1</i>
FR137 French for Biotechnology I [5]*	BO201 Molecular and Cellular Biology [5]	MI326 Microbial Metabolic and Molecular Systems [5]	BI445 Biomolecules [5]
GR150 German for Biotechnology I [5]*	CH203 Physical Chemistry [5]	BI319 Molecular Biology [5]	MG529 Introduction To Business [10]
<i>Semester 1</i>	BI208 Protein Structure and Function [5]	-----	BI448 Modern Biotechnologies [5]
ST2001 Statistics for Data Science I [5]	-----	<i>Semester 2</i>	-----
-----	<i>Semester 2</i>	Placement option	<i>Semester 2</i>
<i>Semester 2</i>	CH205 Analytical & Environmental Chemistry [5]	BG3101 Biotechnology Placement Experience [25]	PAB4104 Plant and Agri-Biotechnologies [5]*
ST2002 Statistics in Data Science II [5]	BI206 Gene Technologies and Molecular Medicine [5]	BG304 Biotechnology Skills for Placement [5]	BI449 Molecular and Cellular Biology [5]
	MI203 Laboratory Skills in Microbiology II [5]	On-Campus option	
	BI207 Metabolism and Cell Signalling [5]	BG305 Biotechnology Skills with French/German III [5]	
	MI204 Microbes and the Environment [5]	BI313 Cell Signalling [5]*	
	CH202 Organic Chemistry [5]	MI322 Environmental Microbiology [5]*	
		BI317 Human Molecular Genetics [5]	
		MI324 Immunology and Recombinant Techniques [5]	
		PAB3103 Plant and Agricultural Genetics [5]	
		BI321 Protein Biochemistry [5]	
* Select one 5-credit module	* Select one 5-credit module	*Select one 5-credit language module. *Select one 5-credit modules in the On-Campus option.	*Select one 5-credit module

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