




OLLSCOIL NA GAILLIMHE
UNIVERSITY OF GALWAY

Bachelor of Science Degree
College of Science and Engineering
2024/2025

BSc BIOTECHNOLOGY

www.universityofgalway.ie/science-engineering/

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 Plus one of: <ul style="list-style-type: none"> Cell Signalling Environmental Microbiology 	<p>There are 40 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>Assigned one 15 credit module:</p> <ul style="list-style-type: none"> Advanced Skills and Employability for Biotechnologists Biochemistry Research Project

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: 40 credits; Options: 20 credits]
<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>BO101 Biology [15] BG110 Biotechnology I [5] BG111 Biotechnology Skills with French/ German [5]</p> <p>BG1101 Employability for Biotechnology [5] CH130 Chemistry: The World of the Molecule [15]</p> <p>FR137 French for Biotechnology I [5]* GR150 German for Biotechnology I [5]* GR1105 Beginners German for Biotechnology I [5]* GA1102 Irish for Biotechnology I [5]*</p> <p><i>Semester 1</i> ST2001 Statistics for Data Science I [5]</p> <p><i>Semester 2</i> ST2002 Statistics in Data Science II [5]</p>	<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>FR216 French for Biotechnology II [5]* GR241 German for Biotechnology II [5]*</p> <p><i>Semester 1</i> BG204 Biotechnology Skills with French/ German II[5] MI202 Laboratory Skills in Microbiology I [5] BO201 Molecular and Cellular Biology [5] CH203 Physical Chemistry [5] BI208 Protein Structure and Function [5]</p> <p><i>Semester 2</i> CH205 Analytical & Environmental Chemistry [5] BI206 Gene Technologies and Molecular Medicine [5] MI203 Laboratory Skills in Microbiology II [5] BI207 Metabolism and Cell Signalling [5] MI204 Microbes and the Environment [5] CH202 Organic Chemistry [5]</p>	<p><i>Semester 1</i> BI309 Cell Biology [5] MI323 Food and Industrial Microbiology [5] FR364 French for Biotechnology III [5]* PM208 Fundamental Concepts in Pharmacology [5] GR358 German for Biotechnology III [5]* MI326 Microbial Metabolic and Molecular Systems [5] BI319 Molecular Biology [5]</p> <p><i>Semester 2</i> Placement option BG3101 Biotechnology Placement Experience [25] BG304 Biotechnology Skills for Placement [5]</p> <p>On-Campus option BG305 Biotechnology Skills with French/ German III [5] BI313 Cell Signalling [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].</p>	<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>BG4101 Advanced Skills and Employability for Biotechnologists [15]* BI452 Biochemistry Principles and Experimental Design [5] BI453 Biochemistry Research Project [15]* BI447 Literature Review and Presentation [10]</p> <p><i>Semester 1</i> BI445 Biomolecules [5] MG529 Introduction To Business [10] BI448 Modern Biotechnologies [5]</p> <p><i>Semester 2</i> MI4106 Glycosciences and Recombinant Protein Production [5]* PAB4104 Plant and Agri-Biotechnologies [5]* BI449 Molecular and Cellular Biology [5]</p>
* 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. *Assigned one 15-credit module