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Ollscoil na Gaillimhe University of Galway

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

BSc BIOTECHNOLOGY

www.universityofgalway.ie/science-engineering/



Overview

Year 1 [60 Credits]	Year 2 [60 Credits]	Year 3 [60 Credits]	Year 4 [60 Credits]
Choose one module to a value of 5 credits: French for Biotechnology I German for Biotechnology I Beginners German for Biotechnology I Irish for Biotechnology I	Choose one module to a value of 5 Credits: French for Biotechnology II German for Biotechnology II	Choose one module to a value of 5 credits: French for Biotechnology III German for Biotechnology III Placement Option: 30 credits. Students assigned to the Placement Option must take: Biotechnology Placement Experience Biotechnology Skills for Placement On-Campus Option: 30 credits. Students assigned to the On-Campus Option must take: Biotechnology Skills with French/ German III Human Molecular Genetics Plant and Agricultural Genetics Immunology and Recombinant Techniques Protein Biochemistry Plus one of: Cell Signalling Environmental Microbiology	Choose one module to a value of 5 credits: Glycosciences & Recombinant Protein Production Plant and Agri-Biotechnologies Assigned one 15 credit module: Advanced Skills and Employability for Biotechnologists Biochemistry Research Project

Module Descriptors for Years 1 to 4 are available at: https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/biotechnology.html#course_outline



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: 40 credits; Options: 20 credits]
Full Year - Semester 1 and Semester 2B0101Biology [15]BG110Biotechnology I [5]BG111Biotechnology Skills with French/ German [5]BG1101Employability for Biotechnology [5]CH130Chemistry: The World of the Molecule [15]FR137French for Biotechnology I [5]*GR150German for Biotechnology I [5]*GR1102Irish for Biotechnology I [5]*Semester JS2001Statistics for Data Science I [5]S2002Statistics in Data Science II [5]	Full Year - Semester 1 and Semester 2FR216 GR241French for Biotechnology II [5]* German for Biotechnology II [5]*Semester 1BG204Biotechnology Skills with French/ German II[5]MI202Laboratory Skills in Microbiology I [5]BO201Molecular and Cellular Biology [5]CH203Physical Chemistry [5]BI208Protein Structure and Function [5]Semester 2CH205Analytical & Environmental Chemistry [5]BI206Gene Technologies and Molecular Medicine [5]MI203Laboratory Skills in Microbiology II [5]BI207Metabolism and Cell Signalling [5]MI204Microbes and the Environment [5]CH202Organic Chemistry [5]	Semester 1BI309Cell Biology [5]MI323Food and Industrial Microbiology [5]FR364French for Biotechnology III [5]*PM208Fundamental Concepts in Pharmacology [5]GR358German for Biotechnology III [5]*MI326Microbial Metabolic and Molecular Systems [5]BI319Molecular Biology [5]Semester 2Placement optionBG3101Biotechnology Placement Experience [25]BG304Biotechnology Skills for Placement [5]On-Campus optionBG305Biotechnology Skills with French/ German III [5]BI313Cell Signalling [5]*MI322Environmental Microbiology [5]BI317Human Molecular Genetics [5]MI324Immunology and Recombinant Techniques [5]PAB3103Plant and Agricultural Genetics [5]BI321Protein Biochemistry [5].	Full Year – Semester 1 and Semester 2 BG4101 Advanced Skills and Employability for Biotechnologists [15]* BI452 Biochemistry Principles and Experimental Design [5] BI453 Biochemistry Research Project [15] BI453 Biochemistry Research Project [15] BI447 Literature Review and Presentation [10] Semester 1 Bi445 BI445 Biomolecules [5] MG529 Introduction To Business [10] BI448 Modern Biotechnologies [5] Semester 2 MI4106 Glycosciences and Recombinant Production [5]* PAB4104 Plant and Agri-Biotechnologies [5] BI449 Molecular and Cellular Biology [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. *Assigned one 15-credit module

