



NUI Galway  
OÉ Gaillimh

College of Science

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# BSc BIOTECHNOLOGY



[www.nuigalway.ie/science](http://www.nuigalway.ie/science)

## Overview

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

## BSc Biotechnology

Year 1	Year 2	Year 3	Year 4
<b>[Core: 55 credits; Options: 5 credits]</b>	<b>[Core: 55 credits; Options: 5 credits]</b>	<b>[Core: 25 Credits; Options: 35 credits]</b>	<b>[Core: 55 credits; Options: 5 credits]</b>
<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 <b>Biology</b> [15]	FR216 <b>French for Biotechnology II</b> [5]*	BI309 <b>Cell Biology</b> [5]	BI452 <b>Biochemistry Principles and Experimental Design</b> [5]
BG110 <b>Biotechnology I</b> [5]	GR241 <b>German for Biotechnology II</b> [5]*	MI323 <b>Food and Industrial Microbiology</b> [5]	BI453 <b>Biochemistry Research Project</b> [15]
BG111 <b>Biotechnology Skills with French/German</b> [5]	<u>Semester 1</u>	FR364 <b>French for Biotechnology III</b> [5]*	MI442 <b>Bioprocessors and Recombinant Protein Production</b> [5]*
CH130 <b>Chemistry: The World of the Molecule</b> [15]	BG204 <b>Biotechnology Skills with French/German II</b> [5]	PM208 <b>Fundamental Concepts in Pharmacology</b> [5]	BI447 <b>Literature Review and Presentation</b> [10]
FR137 <b>French for Biotechnology I</b> [5]*	MI202 <b>Laboratory Skills in Microbiology I</b> [5]	GR358 <b>German for Biotechnology III</b> [5]*	<u>Semester 1</u>
GR150 <b>German for Biotechnology I</b> [5]*	BO201 <b>Molecular and Cellular Biology</b> [5]	MI326 <b>Microbial Metabolic and Molecular Systems</b> [5]	BI445 <b>Biomolecules</b> [5]
<u>Semester 1</u>	CH203 <b>Physical Chemistry</b> [5]	BI319 <b>Molecular Biology</b> [5]	MG529 <b>Introduction To Business</b> [10]
MA170 <b>Introduction to Programming for Biologists</b> [5]	BI208 <b>Protein Structure and Function</b> [5]	-----	BI448 <b>Modern Biotechnologies</b> [5]
ST237 <b>Introduction to Statistical Data and Probability</b> [5]	-----	<u>Semester 2</u>	-----
-----	<u>Semester 2</u>	<b>Placement option</b>	<u>Semester 2</u>
<u>Semester 2</u>	CH205 <b>Analytical &amp; Environmental Chemistry</b> [5]	BG3101 <b>Biotechnology Placement Experience</b> [25]	PAB4104 <b>Plant and Agri-Biotechnologies</b> [5]*
ST238 <b>Introduction to Statistical Inference</b> [5]	BI206 <b>Gene Technologies and Molecular Medicine</b> [5]	BG304 <b>Biotechnology Skills for Placement</b> [5]	BI449 <b>Molecular and Cellular Biology</b> [5]
	MI203 <b>Laboratory Skills in Microbiology II</b> [5]	<b>On-Campus option</b>	
	BI207 <b>Metabolism and Cell Signalling</b> [5]	BG305 <b>Biotechnology Skills with French/German III</b> [5]	
	MI204 <b>Microbes and the Environment</b> [5]	BI313 <b>Cell Signalling</b> [5]*	
	CH202 <b>Organic Chemistry</b> [5]	MI322 <b>Environmental Microbiology</b> [5]*	
		BI317 <b>Human Molecular Genetics</b> [5]	
		MI324 <b>Immunology and Recombinant Techniques</b> [5]	
		PAB3103 <b>Plant and Agricultural Genetics</b> [5]	
		BI321 <b>Protein Biochemistry</b> [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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