



NUI Galway  
OÉ Gaillimh

College of Science

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# BSC BIOPHARMACEUTICAL CHEMISTRY



[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 45 credits of Core modules.</p> <p>Choose one module to a value of 15 credits:</p> <ul style="list-style-type: none"> <li>Applied Mathematics</li> <li>Computer Science</li> <li>Mathematical Studies</li> <li>Mathematics (Honours)</li> </ul>	<p>There are 60 credits of Core modules.</p>	<p>There are 60 credits of Core modules.</p>	<p>There are 30 credits of Core modules.</p> <p>Work Placement Option: 30 credits Students assigned to the Work Placement Option must take:</p> <ul style="list-style-type: none"> <li>Biopharmaceutical Chemistry</li> <li>Dissertation</li> <li>Work 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>On Campus Project</li> </ul> <p>Plus three of:</p> <ul style="list-style-type: none"> <li>Advanced Inorganic Chemistry Mechanisms, Polymer Chemistry and Photochemistry</li> <li>Physical Chemistry 1</li> <li>Selective Synthesis and Organometallic Chemistry</li> </ul>
<p>Module Descriptors available at: <a href="http://www.nuigalway.ie/science/undergraduate-courses/biopharmaceutical-chemistry.html#course_outline">http://www.nuigalway.ie/science/undergraduate-courses/biopharmaceutical-chemistry.html#course_outline</a></p>			



## BSc Biopharmaceutical Chemistry

Year 1	Year 2	Year 3	Year 4
<b>[Core: 45 credits; Options: 15 credits]</b>	<b>[Core: 60 credits]</b>	<b>[Core: 60 credits]</b>	<b>[Core: 30 credits; Options: 30 credits]</b>
<i>Full Year – Semester 1 and Semester 2</i>	<i>Semester 1</i>	<i>Semester 1</i>	<i>Semester 1</i>
BO101 <b>Biology</b> [15]	PM209 <b>Applied Concepts in Pharmacology</b> [5]	CH326 <b>Analytical Chemistry &amp; Molecular Structure</b> [5]	<b>Work Placement Option</b>
CH101 <b>Chemistry</b> [15]	PM208 <b>Fundamental Concepts in Pharmacology</b> [5]	CH332 <b>Drug Design &amp; Drug Discovery</b> [10]	CH4110 <b>Biopharmaceutical Chemistry Dissertation</b> [15]
PH101 <b>Physics</b> [15]	CH204 <b>Inorganic Chemistry</b> [5]	CH333 <b>Experimental Chemistry I</b> [5]	CH4111 <b>Work Placement</b> [15]
<b>One of:</b>	BO201 <b>Molecular and Cellular Biology</b> [5]	BI319 <b>Molecular Biology</b> [5]	<b>On Campus Option</b>
MP180 <b>Applied Mathematics</b> [15]*	CH203 <b>Physical Chemistry</b> [5]	CH311 <b>Organic Chemistry</b> [5]	CH4112 <b>On Campus Project</b> [15]
CS102 <b>Computer Science</b> [15]*	BI208 <b>Protein Structure and Function</b> [5]	-----	CH445 <b>Advanced Inorganic Chemistry</b> [5]*
MA161 <b>Mathematical Studies</b> [15]*	-----	<i>Semester 2</i>	CH439 <b>Mechanisms, Polymer Chemistry and Photochemistry</b> [5]*
MA180 <b>Mathematics (Honours)</b> [15]*	<i>Semester 2</i>	CH334 <b>Experimental Chemistry II</b> [5]	CH429 <b>Physical Chemistry 1</b> [5]*
	CH205 <b>Analytical &amp; Environmental Chemistry</b> [5]	BI317 <b>Human Molecular Genetics</b> [5]	CH449 <b>Selective Synthesis and Organometallic Chemistry</b> [5]*
	CH3101 <b>Computers and Chemical Research</b> [10]	CH307 <b>Inorganic Chemistry</b> [5]	-----
	BI206 <b>Gene Technologies and Molecular Medicine</b> [5]	CH313 <b>Physical Chemistry</b> [5]	<i>Semester 2</i>
	BI207 <b>Metabolism and Cell Signalling</b> [5]	BI321 <b>Protein Biochemistry</b> [5]	CH4109 <b>Analytical and Biophysical Chemistry</b> [10]
	CH202 <b>Organic Chemistry</b> [5]	CH3103 <b>Validation in the Pharmaceutical and Medical Device Industry</b> [5]	CH4107 <b>Bioorganic &amp; Bioinorganic Chemistry</b> [10]
			CH4108 <b>Biopharmaceutical Chemistry &amp; Industrial Chemistry</b> [10]
* Select one 15-credit module			* Select modules to a value of 15 credits for the On Campus Option.

Module Descriptors available at: [http://www.nuigalway.ie/science/undergraduate-courses/biopharmaceutical-chemistry.html#course\\_outline](http://www.nuigalway.ie/science/undergraduate-courses/biopharmaceutical-chemistry.html#course_outline)