



OLLSCOIL NA GAILLIMHÉ  
UNIVERSITY OF GALWAY

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

# BSc BIOPHARMACEUTICAL CHEMISTRY

[www.universityofgalway.ie/science-engineering/](http://www.universityofgalway.ie/science-engineering/)

# 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 60 credits of Core modules.</p>
<p>Module Descriptors for Years 1 to 4 are available at: <a href="https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/bachelorofsciencebiopharmaceuticalchemistry/#course_outline">https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/bachelorofsciencebiopharmaceuticalchemistry/#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: 60 credits]</b>
<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>BO101 <b>Biology [15]</b>            CH101 <b>Chemistry [15]</b>            PH101 <b>Physics [15]</b></p> <p>One of:</p> <p>MP180 <b>Applied Mathematics [15]*</b>            CS102 <b>Computer Science [15]*</b>            MA161 <b>Mathematical Studies [15]*</b>            MA180 <b>Mathematics (Honours) [15]*</b></p>	<p><i>Semester 1</i></p> <p>PM209 <b>Applied Concepts in Pharmacology [5]</b>            PM208 <b>Fundamental Concepts in Pharmacology [5]</b></p> <p>CH204 <b>Inorganic Chemistry [5]</b>            BO201 <b>Molecular and Cellular Biology [5]</b>            CH203 <b>Physical Chemistry [5]</b>            BI208 <b>Protein Structure and Function [5]</b></p> <p><i>Semester 2</i></p> <p>CH205 <b>Analytical &amp; Environmental Chemistry [5]</b>            CH3101 <b>Computers and Chemical Research [10]</b>            BI206 <b>Gene Technologies and Molecular Medicine [5]</b></p> <p>BI207 <b>Metabolism and Cell Signalling [5]</b>            CH202 <b>Organic Chemistry [5]</b></p>	<p><i>Semester 1</i></p> <p>CH326 <b>Analytical Chemistry &amp; Molecular Structure [5]</b>            CH332 <b>Drug Design &amp; Drug Discovery [10]</b>            CH333 <b>Experimental Chemistry I [5]</b>            BI319 <b>Molecular Biology [5]</b>            CH311 <b>Organic Chemistry [5]</b></p> <p><i>Semester 2</i></p> <p>CH334 <b>Experimental Chemistry II [5]</b>            BI317 <b>Human Molecular Genetics [5]</b>            CH307 <b>Inorganic Chemistry [5]</b>            CH313 <b>Physical Chemistry [5]</b>            BI321 <b>Protein Biochemistry [5]</b>            CH3103 <b>Validation in the Pharmaceutical and Medical Device Industry [5]</b></p>	<p><i>Semester 1</i></p> <p>CH4116 <b>Biopharmaceutical Chemistry Dissertation [10]</b>            CH4117 <b>Work Placement [20]</b></p> <p><i>Semester 2</i></p> <p>CH445 <b>Advanced Inorganic Chemistry [5]</b>            CH446 <b>Bioinorganic and Inorganic Medicinal Chemistry [5]</b>            CH438 <b>Bioorganic Chemistry [5]</b>            CH4115 <b>Biopharmaceutical Chemistry [5]</b>            CH4113 <b>Organic Chemistry [5]</b>            CH432 <b>Physical Chemistry 2 [5]</b></p>
* Select one 15-credit module			