



NUI Galway
OÉ Gaillimh

College of Science

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BSC BIOPHARMACEUTICAL CHEMISTRY



Overview

Year 1	Year 2	Year 3	Year 4
[60 credits]	[60 credits]	[60 credits]	[60 credits]
<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"> Applied Mathematics Computer Science Mathematical Studies Mathematics (Honours) 	<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"> Biopharmaceutical Chemistry Dissertation Work Placement <p>On-Campus Option: 30 credits Students assigned to the On-Campus Option must take:</p> <ul style="list-style-type: none"> On Campus Project <p>Plus three of:</p> <ul style="list-style-type: none"> Advanced Inorganic Chemistry Mechanisms, Polymer Chemistry and Photochemistry Physical Chemistry 1 Selective Synthesis and Organometallic Chemistry

BSc Biopharmaceutical Chemistry

Year 1	Year 2	Year 3	Year 4
[Core: 45 credits; Options: 15 credits]	[Core: 60 credits]	[Core: 60 credits]	[Core: 30 credits; Options: 30 credits]
<u>Full Year – Semester 1 and Semester 2</u>	<u>Semester 1</u>	<u>Semester 1</u>	<u>Semester 1</u>
BO101 Biology [15] <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 - Semester 1 • Written Paper 2 - Semester 2 CH101 Chemistry [15] <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 - Semester 1 • Written Paper 2 - Semester 2 PH101 Physics [15] <ul style="list-style-type: none"> • Continuous Assessment Summer • Written Paper 1 - Semester 1 • Written Paper 2 - Semester 2 One of: MP180 Applied Mathematics [15]* <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) CS102 Computer Science [15]* <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) MA161 Mathematical Studies [15]* <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) MA180 Mathematics (Honours) [15]* <ul style="list-style-type: none"> • Continuous Assessment (Summer) • Written Paper 1 (Semester 1) • Written Paper 2 (Semester 2) 	PM209 Applied Concepts in Pharmacology [5] <ul style="list-style-type: none"> • Written Paper PM208 Fundamental Concepts in Pharmacology [5] <ul style="list-style-type: none"> • Written Paper CH204 Inorganic Chemistry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper BO201 Molecular and Cellular Biology [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH203 Physical Chemistry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper BI208 Protein Structure and Function [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper ----- <u>Semester 2</u> CH205 Analytical & Environmental Chemistry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH3101 Computers and Chemical Research [10] <ul style="list-style-type: none"> • Departmental Assessment BI206 Gene Technologies and Molecular Medicine [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper BI207 Metabolism and Cell Signalling [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH202 Organic Chemistry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 	CH326 Analytical Chemistry & Molecular Structure [5] <ul style="list-style-type: none"> • Written Paper CH332 Drug Design & Drug Discovery [10] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH333 Experimental Chemistry I [5] <ul style="list-style-type: none"> • Continuous Assessment BI319 Molecular Biology [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH311 Organic Chemistry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper ----- <u>Semester 2</u> CH334 Experimental Chemistry II [5] <ul style="list-style-type: none"> • Continuous Assessment BI317 Human Molecular Genetics [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH307 Inorganic Chemistry [5] <ul style="list-style-type: none"> • Written Paper CH313 Physical Chemistry [5] <ul style="list-style-type: none"> • Written Paper BI321 Protein Biochemistry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH3103 Validation in the Pharmaceutical and Medical Device Industry [5] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 	Work Placement Option CH4110 Biopharmaceutical Chemistry Dissertation [15] <ul style="list-style-type: none"> • Departmental Assessment CH4111 Work Placement [15] <ul style="list-style-type: none"> • Departmental Assessment On Campus Option CH4112 On Campus Project [15] <ul style="list-style-type: none"> • Departmental Assessment CH445 Advanced Inorganic Chemistry [5]* <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH439 Mechanisms, Polymer Chemistry and Photochemistry [5]* <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH429 Physical Chemistry 1 [5]* <ul style="list-style-type: none"> • Continuous Assessment • Written Paper CH449 Selective Synthesis and Organometallic Chemistry [5]* <ul style="list-style-type: none"> • Continuous Assessment • Written Paper ----- <u>Semester 2</u> CH4109 Analytical and Biophysical Chemistry [10] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 1 • Written Paper 2 CH4107 Bioorganic & Bioinorganic Chemistry [10] <ul style="list-style-type: none"> • Continuous Assessment • Written Paper 1 • Written Paper 2

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BSc Biopharmaceutical Chemistry – Continued

			<p>CH4108 Biopharmaceutical Chemistry & Industrial Chemistry [10]</p> <ul style="list-style-type: none">• <i>Continuous Assessment</i>• <i>Written Paper 1</i>• <i>Written Paper 2</i>
* Select one 15-credit modules			* Select modules to a value of 15 credits for the On Campus Option.