

BSc in Chemistry and Biological Chemistry with 2nd Major in Entrepreneurship (CHET)
 AY2023 - 2024 Intake onwards
 with Professional Internship

Programme	Year of Study	Number of Academic Units (AU)					Total
		Major Requirement		Interdisciplinary Collaborative Core		Broadening and Deepening Electives (BDE)	
		Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)		
Chemistry and Biological Chemistry with 2nd major in Entrepreneurship	1	17/18*		9		9	35/36*
	2	21		8	3	6	38
	3	18			2	13	33
	4		12		10	4	26
	Total	56/57*	12	17	15	32	132/133*

BSc in Chemistry and Biological Chemistry with 2nd Major in Entrepreneurship (CHET)

Category	AU	Total AU
Interdisciplinary Collaborative Core (ICC)		
Common Core (University-level)		
CC0001 Inquiry and Communication in the Interdisciplinary World	2	17
CC0002 Navigating the Digital World	2	
CC0003 Ethics & Civics in a Multi-Cultural World	2	
CC0005 Healthy Living & Wellbeing	3	
CC0006 Sustainability: Society, Economy & Environment	3	
CC0007 Science & Technology for Humanity	3	
ML0004 Career and Entrepreneurial Development for the Future	2	
Foundational Core (College-level)		
HW0218 Communication Across the Sciences	2	5
PS0002 Introduction to Data Science and Artificial Intelligence	3	

Major Requirement	CHEM Core			
	CM1001 Foundations of Chemistry I	4	56/57*	
	CM1002 Foundations of Chemistry II	4		
	MH1082 Calculus for the Sciences	4		
	CM1804 Mathematics for Chemistry	2		
	PH1011 Physics or PH1012* Physics A	3/4*		
	CM2011 Analytical and Bioanalytical Chemistry	3		
	CM2021 Inorganic and Bioinorganic Chemistry	3		
	CM2061 Chemistry & Biological Chemistry Laboratory 1	3		
	CM2031 Organic and Bioorganic Chemistry	3		
	CM2041 Physical and Biophysical Chemistry 1	3		
	CM2062 Chemistry & Biological Chemistry Laboratory 2	3		
	PS0001 Introduction to Computational Thinking	3		
	CM3011 ^{&} Chemical Spectroscopy and Applications	3		
	CM3041 ^{&} Physical and Biophysical Chemistry 2	3		
	CM3062 Chemistry & Biological Chemistry Laboratory 4	3		
	CM3031 ^{&} Organic Reaction Mechanisms and Synthesis	3		
	CM3021 ^{&} Organometallic Chemistry	3		
	CM3061 Chemistry & Biological Chemistry Laboratory 3	3		
	CHEM Major Prescribed Electives (MPE)			
	4 x MPEs	12		12

2nd Major in Entrepreneurship (BDEs)	Entrepreneurship Compulsory Courses		
	ET5211 Technopreneurial Mindset	3	35 [^]
	ET5212 Entrepreneurial Ecosystems	3	
	ET5213 Managing New Ventures	3	
	ET5214 Financing Entrepreneurial Ventures	3	
Compulsory Experiential Programme			
CM4076 Overseas Entrepreneurship Programme (6-MONTH)		10 [^]	
OR			
CM4081 Professional Internship			
Elective Courses (at least 4 courses)		13	
<i>Students are responsible to plan for their 2nd major courses</i>			
Broadening and Deepening Electives (BDE)			7
Total			132/133*
[^] 5 AU out of the 10AU is taken from ICC Foundational Core			

*Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

& CM3011, CM3021. CM3031, CM3041 are offered in both semesters.

BSc in Chemistry and Biological Chemistry with 2nd Major in Entrepreneurship (CHET)							
Suggested Study Plan for AY2023-2024 intake							
<i>with Professional Internship</i>							
Year 1 Semester 1				Year 1 Semester 2			
Course		Type	AU	Course	Type	AU	
CM1001	Foundations of Chemistry I	C	4	CM1002	Foundations of Chemistry II	C	4
MH1802	Calculus for the Sciences	C	4	CM1804	Mathematics for Chemistry	C	2
CC0001	Inquiry and Communication in the Interdisciplinary World	CC	2	PH1011/	Physics <u>or</u>	C	3
CC0002	Navigating the Digital World	CC	2	PH1012*	Physics A (<i>For students without 'A' Level Physics</i>)	C	4
CC0005	Healthy Living & Well-being	CC	3	CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
ET5211	Technopreneurial Mindset	BDE	3	ET5213	Managing New Ventures	BDE	3
HW0001	<i>Introduction to Academic Communication[#]</i>			BDE 1		BDE	3
			18				17/18*
<i>[#] for students who have not cleared QET</i>							
Year 2 Semester 1				Year 2 Semester 2			
Course		Type	AU	Course	Type	AU	
CM2011	Analytical and Bioanalytical Chemistry	C	3	CM2031	Organic and Bioorganic Chemistry	C	3
CM2021	Inorganic and Bioinorganic Chemistry	C	3	CM2041	Physical and Biophysical Chemistry 1	C	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	C	3	CM2062	Chemistry & Biological Chemistry Laboratory 2	C	3
PS0001	Introduction to Computational Thinking	C	3	PS0002	Introduction to Data Science and Artificial Intelligence	FC	3
CC0006	Sustainability: Society, Economy & Environment	CC	3	CC0007	Science & Technology for Humanity	CC	3
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	ET5214	Financing Entrepreneurial Ventures	BDE	3
ET5212	Entrepreneurial Ecosystems	BDE	3				
			20				18
Year 3 Semester 1				Year 3 Semester 2			
Course		Type	AU	Course	Type	AU	
CM3xxx ^{&}	CHEM-Core	C	3	CM3xxx ^{&}	CHEM-Core	C	3
CM3xxx ^{&}	CHEM-Core	C	3	CM3xxx ^{&}	CHEM-Core	C	3
CM3062	Chemistry & Biological Chemistry Laboratory 4	C	3	CM3061	Chemistry & Biological Chemistry Laboratory 3	C	3
	Entrepreneurship Elective 1	BDE	3	HW0218	Communication Across the Sciences	FC	2
	BDE 2	BDE	2		Entrepreneurship Elective 3	BDE	3
	BDE 3	BDE	2		Entrepreneurship Elective 4	BDE	3
			16				17
Year 4 Semester 1				Year 4 Semester 2			
Course		Type	AU	Course	Type	AU	
CM4076	Overseas Entrepreneurship Programme (6-MONTH)	FC/ BDE	10		CHEM MPE1	MPE	3
	OR				CHEM MPE2	MPE	3
CM4081	Professional Internship	FC/ BDE			CHEM MPE3	MPE	3
			10		CHEM MPE4	MPE	3
					Entrepreneurship Elective 2	BDE	4
							16
						Total (AU)	132/133*

This study plan is meant as a guide.

**Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).*

[&] CM3xxx refers to CM3011, CM3021, CM3031, CM3041 - These courses are offered in both semesters

BSc in Chemistry and Biological Chemistry with 2nd Major in Entrepreneurship (CHET)
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		Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)		
Chemistry and Biological Chemistry with 2nd major in Entrepreneurship	1	17/18*		9		6	32/33*
	2	21		8	3	6	38
	3	18	6		2	13	39
	4		16		10		26
	Total	56/57*	22	17	15	25	135/136*

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Category	AU	Total AU
Common Core (University-level)		
CC0001 Inquiry and Communication in the Interdisciplinary World	2	17
CC0002 Navigating the Digital World	2	
CC0003 Ethics & Civics in a Multi-Cultural World	2	
CC0005 Healthy Living & Wellbeing	3	
CC0006 Sustainability: Society, Economy & Environment	3	
CC0007 Science & Technology for Humanity	3	
ML0004 Career and Entrepreneurial Development for the Future World	2	
Foundational Core (College-level)		
HW0218 Communication Across the Sciences	2	5
PS0002 Introduction to Data Science and Artificial Intelligence	3	

Major Requirement	CHEM Core		
	CM1001 Foundations of Chemistry I	4	56/57*
	CM1002 Foundations of Chemistry II	4	
	MH1082 Calculus for the Sciences	4	
	CM1804 Mathematics for Chemistry	2	
	PH1011 Physics or PH1012* Physics A	3/4*	
	CM2011 Analytical and Bioanalytical Chemistry	3	
	CM2021 Inorganic and Bioinorganic Chemistry	3	
	CM2061 Chemistry & Biological Chemistry Laboratory 1	3	
	CM2031 Organic and Bioorganic Chemistry	3	
	CM2041 Physical and Biophysical Chemistry 1	3	
	CM2062 Chemistry & Biological Chemistry Laboratory 2	3	
	PS0001 Introduction to Computational Thinking	3	
	CM3011 ^{&} Chemical Spectroscopy and Applications	3	
	CM3041 ^{&} Physical and Biophysical Chemistry 2	3	
	CM3062 Chemistry & Biological Chemistry Laboratory 4	3	
	CM3031 ^{&} Organic Reaction Mechanisms and Synthesis	3	
	CM3021 ^{&} Organometallic Chemistry	3	
	CM3061 Chemistry & Biological Chemistry Laboratory 3	3	
	CHEM Major Prescribed Electives (MPE)		
CM4080 Honours Project 1	10	22	
4 x MPEs	12		

2nd Major in Entrepreneurship (BDEs)	Compulsory Courses		
	ET5211	Technopreneurial Mindset	3
	ET5212	Entrepreneurial Ecosystems	3
	ET5213	Managing New Ventures	3
	ET5214	Financing Entrepreneurial Ventures	3
	Compulsory Experiential Programme		
	CM4076	Overseas Entrepreneurship Programme (6-MONTH) OR	10^
	CM4081	Professional Internship	
	Elective Courses (at least 4 courses)		13
<i>Students are responsible to plan for their 2nd major courses</i>			
Total			135/136*
<i>^5 AU out of the 10AU is taken from ICC Foundational Core</i>			

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<i>with Professional Internship + FYP</i>							
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Course		Type	AU	Course		Type	AU
CM1001	Foundations of Chemistry I	C	4	CM1002	Foundations of Chemistry II	C	4
MH1802	Calculus for the Sciences	C	4	CM1804	Mathematics for Chemistry	C	2
CC0001	Inquiry and Communication in the Interdisciplinary World	CC	2	PH1011/	Physics <u>or</u>	C	3
CC0002	Navigating the Digital World	CC	2	PH1012*	Physics A (<i>For students without 'A' Level Physics</i>)	C	4
CC0005	Healthy Living & Well-being	CC	3	CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
ET5211	Technopreneurial Mindset	BDE	3	ET5213	Managing New Ventures	BDE	3
HW0001	<i>Introduction to Academic Communication #</i>						
			18				14/15*
# <i>for students who have not cleared QET</i>							
Year 2 Semester 1				Year 2 Semester 2			
Course		Type	AU	Course		Type	AU
CM2011	Analytical and Bioanalytical Chemistry	C	3	CM2031	Organic and Bioorganic Chemistry	C	3
CM2021	Inorganic and Bioinorganic Chemistry	C	3	CM2041	Physical and Biophysical Chemistry 1	C	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	C	3	CM2062	Chemistry & Biological Chemistry Laboratory 2	C	3
PS0001	Introduction to Computational Thinking	C	3	PS0002	Introduction to Data Science and Artificial Intelligence	FC	3
CC0006	Sustainability: Society, Economy & Environment	CC	3	CC0007	Science & Technology for Humanity	CC	3
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	ET5214	Financing Entrepreneurial Ventures	BDE	3
ET5212	Entrepreneurial Ecosystems	BDE	3				
			20				18
Year 3 Semester 1				Year 3 Semester 2			
Course		Type	AU	Course		Type	AU
CM3xxx ^{&}	CHEM-Core	C	3	CM3xxx ^{&}	CHEM-Core	C	3
CM3xxx ^{&}	CHEM-Core	C	3	CM3061	Chemistry & Biological Chemistry Laboratory 3	C	3
CM3xxx ^{&}	CHEM-Core	C	3	HW0218	Communication Across the Sciences	FC	2
CM3062	Chemistry & Biological Chemistry Laboratory 4	C	3		Entrepreneurship Elective 3	BDE	3
	Entrepreneurship Elective 1	BDE	3		Entrepreneurship Elective 4	BDE	3
	Entrepreneurship Elective 2	BDE	4		CHEM MPE1	MPE	3
					CHEM MPE2	MPE	3
			19				20
Year 4 Semester 1				Year 4 Semester 2			
Course		Type	AU	Course		Type	AU
CM4076	Overseas Entrepreneurship Programme (6-MONTH)	FC/ BDE	10	CM4080	Honours Project 1	MPE	10
	OR				CHEM MPE3	MPE	3
CM4081	Professional Internship	FC/ BDE			CHEM MPE4	MPE	3
			10				16
						Total (AU)	135/136*

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