

BSc in Chemistry and Biological Chemistry with 2nd Major in Entrepreneurship (CHET)								
AY2025 - 2026 Intake onwards								
FYP with Professional Internship								
Programme	Year of Study	Number of Academic Units (AU)						
		Major Requirement		Interdisciplinary Collaborative Core			Broadening and Deepening Electives (BDE)	Total
		Core (C)	Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve and Learn (CSL)		
Chemistry and Biological Chemistry with 2nd major in Entrepreneurship	1	18/19*		8			6	32/33*
	2	22		6	3	3	6	40
	3	18	6		3		13	40
	4		16		10 [10]			26 [10]
	Total	58/59*	22	14	16 [10]	3	25	138/139* [10]
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 & Communication in an Interdisciplinary World						2	14
	CC0003 Ethics & Civics in a Multi-Cultural World						2	
	ML0004 Career Design & Workplace Readiness in the V.U.C.A World						2	
	CC0015 Health & Wellbeing						2	
	CC0006 Sustainability: Society, Economy & Environment						3	
	CC0007 Science & Technology for Humanity						3	
	Professional Series (College-level)							
	HW0218 Communication Across the Sciences						2	16
	PS0002 Introduction to Data Science and Artificial Intelligence						3	
Major Requirement	CM4081^ Professional Internship						10	
	MLXXXX Profession Preparation						1	
	XXXXXX Care, Serve, Learn (University-level)						3	3
	CHEM Core							
	CM1001 Foundations of Chemistry I						4	58/59*
	CM1002 Foundations of Chemistry II						4	
	CB1102 Introduction to Chemistry, Chemical and Biomedical Engineering						1	
	MH1082 Calculus for the Sciences						4	
	CM1804 Mathematics for Chemistry						2	
	PH1011 Physics <u>or</u> 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	
	CB2002 Introduction to Chemical and Biological Safety						1	
	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		25^
	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			138/139*

^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 AY2025-2026 intake <i>FYP 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	
CB1102	Introduction to Chemistry, Chemical and Biomedical Engineering	C	1		PH1011/	Physics <u>or</u>	C	3	
CC0001	Inquiry & Communication in an Interdisciplinary World	CC	2		PH1012*	Physics A (<i>For students without 'A' Level Physics</i>)	C	4	
CC0015	Health Wellbeing	CC	2		CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
ET5211	Technopreneurial Mindset	BDE	3		ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
HW0001	Introduction to Academic Communication [#]				ET5213	Managing New Ventures	BDE	3	
16					16/17*				
# for students who have not cleared QET									
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		CB2002	Introduction to Chemical and Biological Safety	C	1	
CC0006	Sustainability: Society, Economy & Environment	CC	3		PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	
ET5212	Entrepreneurial Ecosystems	BDE	3		CC0007	Science & Technology for Humanity	CC	3	
XXXXXX	Care, Serve, Learn	CSL	3		ET5214	Financing Entrepreneurial Ventures	BDE	3	
21					19				
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	PS	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 MPE 1	MPE	3	
MLxxxx	Profession Preparation	PS	1			CHEM MPE 2	MPE	3	
20					20				
Year 4 Semester 1					Year 4 Semester 2				
Course		Type	AU		Course		Type	AU	
CM4076	Overseas Entrepreneurship Programme (6-MONTH)	PS/ BDE			CM4080	Honours Project 1	MPE	10	
	OR		10			CHEM MPE 3	MPE	3	
CM4081^	Professional Internship	PS/ BDE				CHEM MPE 4	MPE	3	
10					16				
Total (AU)								138/139*	

This study plan is meant as a guide.

[^]10AU is taken from ICC Foundational Core

*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)								
AY2025 - 2026 Intake onwards with Professional Internship								
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		Major Requirement		Interdisciplinary Collaborative Core			Broadening and Deepening Electives (BDE)	Total
		Core (C)	Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve and Learn (CSL)		
Chemistry and Biological Chemistry with 2nd major in Entrepreneurship	1	18/19*		8			6	32/33*
	2	22		6	3	3	6	40
	3	18			3		18	39
	4		12		10 [10]			22 [10]
	Total	58/59*	12	14	16 [10]	3	30	133/134* [10]
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 & Communication in an Interdisciplinary World						2	
	CC0003 Ethics & Civics in a Multi-Cultural World						2	
	ML0004 Career Design & Workplace Readiness in the V.U.C.A World						2	
	CC0015 Health & Wellbeing						2	14
	CC0006 Sustainability: Society, Economy & Environment						3	
	CC0007 Science & Technology for Humanity						3	
	Professional Series (College-level)							
	HW0218 Communication Across the Sciences						2	
	PS0002 Introduction to Data Science and Artificial Intelligence						3	
	CM4081^ Professional Internship						10	16
	MLXXXX Profession Preparation						1	
XXXXXX Care, Serve, Learn (University-level)						3	3	
Major Requirement	CHEM Core							
	CM1001 Foundations of Chemistry I						4	
	CM1002 Foundations of Chemistry II						4	
	CB1102 Introduction to Chemistry, Chemical and Biomedical Engineering						1	
	MH1082 Calculus for the Sciences						4	
	CM1804 Mathematics for Chemistry						2	
	PH1011 Physics <u>or</u> 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	
	CB2002 Introduction to Chemical and Biological Safety						1	
	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	
	ET5212 Entrepreneurial Ecosystems	3	
	ET5213 Managing New Ventures	3	
	ET5214 Financing Entrepreneurial Ventures	3	
	Compulsory Experiential Programme		25^
	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>			
Broadening and Deepening Electives (BDE)			5
Total			133/134*

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with Professional Internship									
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CM1001	Foundations of Chemistry I	C	4		CM1002	Foundations of Chemistry II	C	4	
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CB1102	Introduction to Chemistry, Chemical and Biomedical Engineering	C	1		PH1011/	Physics <u>or</u>	C	3	
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CC0015	Health Wellbeing	CC	2		CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
ET5211	Technopreneurial Mindset	BDE	3		ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2	
HW0001	Introduction to Academic Communication [#]				ET5213	Managing New Ventures	BDE	3	
			16					16/17*	
[#] for students who have not cleared QET									
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		CB2002	Introduction to Chemical and Biological Safety	C	1	
CC0006	Sustainability: Society, Economy & Environment	CC	3		PS0002	Introduction to Data Science and Artificial Intelligence	PS	3	
ET5212	Entrepreneurial Ecosystems	BDE	3		CC0007	Science & Technology for Humanity	CC	3	
XXXXXX	Care, Serve, Learn	CSL	3		ET5214	Financing Entrepreneurial Ventures	BDE	3	
			21					19	
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	PS	2	
	Entrepreneurship Elective 2	BDE	4			Entrepreneurship Elective 3	BDE	3	
MLxxxx	Profession Preparation	PS	1			Entrepreneurship Elective 4	BDE	3	
	BDE 1	BDE	3			BDE 2	BDE	2	
			20					19	
Year 4 Semester 1					Year 4 Semester 2				
Course		Type	AU		Course		Type	AU	
CM4076	Overseas Entrepreneurship Programme (6-MONTH)	PS/ BDE				CHEM MPE 1	MPE	3	
	OR		10			CHEM MPE 2	MPE	3	
CM4081^	Professional Internship	PS/ BDE				CHEM MPE 3	MPE	3	
						CHEM MPE 4	MPE	3	
			10					12	
Total (AU)								133/134*	

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