BSc in Chemistry and Biological Chemistry with 2nd Major in Entrepreneurship (CHET)
AY2026 - 2027 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*		9			6	33/34*
	2	22		5	3	3	6	39
	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	
	CC0003 Ethics & Civics in a Multi-Cultural World	2	
	ML0004 Career Design and Workplace Readiness in a Dynamic 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	16
	CM4081^ Professional Internship	10	
	MLXXXX Profession Preparation	1	
	CLXXXX **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 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	58/59*
	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**			25^
	ET5001	Foundations of Innovation and Entrepreneurship	3	
	ET5003	Leading and Managing Growing Enterprises	3	
	ET5132	New Venture Financing	3	
	ET5135	Business Venture Implementation	3	
	Compulsory Experiential Programme			
	CM4076	Overseas Entrepreneurship Programme (6-MONTH)		
		OR	10^	
	CM4081^	Professional Internship		
	Elective Courses (to read 13 AU)			
	ET5051	DEEP Dive into Lean Startup	3	
	ET5053	Entrepreneurship Simulation	3	
	ET5054	Rethinking Innovation and Entrepreneurship for Sustainability	3	
	ET5055	Building Digital Ventures	3	
	ET5056	Entrepreneurship Sales & Marketing	3	
	ET5090	Turning Ideas into Compelling Pitches	1	
	ET5092	Experiencing Entrepreneurship	1	
	ET5122	E-Startups and Social Media Strategies	3	
	ET5216	Venture Capital Investment & Practicies	4	
	ET5218	Innovation and Commercialisation of Technologies	3	
	CB4216	Entrepreneurship in Medtech and Biotechnology	3	
	EE5083	From Passion to Action: Six Steps to a Start-up!	3	
	ET5212	Entrepreneurial Ecosystem	3	
	BU5302	Law of Intellectual Property & New Media	3	
	AB0603	Social Entrepreneurship	3	
	ABXXXX	Corporate Entrepreneurship	3	
	PS5888	Making and Tinkering	4	
	DR5004	Design and Systems Thinking	3	
	DV2003	Beyond the Logo: Introduction to Branding	3	
	Students are responsible to plan for their 2nd major courses			
Total				**138/139***

^10AU is taken from ICC Foundational Core

**Students without 'A' Level/Senior High School 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 AY2026-2027 intake
FYP with Professional Internship

Year 1 Semester 1

Course		Type	AU
CM1001	Foundations of Chemistry I	C	4
MH1802	Calculus for the Sciences	C	4
CB1102	Introduction to Chemistry, Chemical and Biomedical Engineering	C	1
CC0001	Inquiry & Communication in an Interdisciplinary World	CC	2
CC0015	Health Wellbeing	CC	2
ET5001	Foundations of Innovation and Entrepreneurship	BDE	3
HW0001	*Introduction to Academic Communication* [#]		
			16

Year 1 Semester 2

Course		Type	AU
CM1002	Foundations of Chemistry II	C	4
CM1804	Mathematics for Chemistry	C	2
PH1011/	Physics or	C	3
PH1012*	Physics A *(For students without 'A' Level Physics)*	C	4
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
CC0007	Science & Technology for Humanity	CC	3
ET5132	New Venture Financing	BDE	3
			17/18*

[#] *for students who have not cleared QET*

Year 2 Semester 1

Course		Type	AU
CM2011	Analytical and Bioanalytical Chemistry	C	3
CM2021	Inorganic and Bioinorganic Chemistry	C	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	C	3
PS0001	Introduction to Computational Thinking	C	3
CC0006	Sustainability: Society, Economy & Environment	CC	3
ET5003	Leading and Managing Growing Enterprises	BDE	3
CLXXXX	Care, Serve, Learn	CSL	3
			21

Year 2 Semester 2

Course		Type	AU
CM2031	Organic and Bioorganic Chemistry	C	3
CM2041	Physical and Biophysical Chemistry 1	C	3
CM2062	Chemistry & Biological Chemistry Laboratory 2	C	3
CB2002	Introduction to Chemical and Biological Safety	C	1
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3
ML0004	Career Design and Workplace Readiness in a Dynamic World	CC	2
ET5135	Business Venture Implementation	BDE	3
			18

Year 3 Semester 1

Course		Type	AU
CM3xxx[&]	CHEM-Core	C	3
CM3xxx[&]	CHEM-Core	C	3
CM3xxx[&]	CHEM-Core	C	3
CM3062	Chemistry & Biological Chemistry Laboratory 4	C	3
	Entrepreneurship Elective 1	BDE	3
	Entrepreneurship Elective 2	BDE	4
MLxxxx	Profession Preparation	PS	1
			20

Year 3 Semester 2

Course		Type	AU
CM3xxx[&]	CHEM-Core	C	3
CM3061	Chemistry & Biological Chemistry Laboratory 3	C	3
HW0218	Communication Across the Sciences	PS	2
	Entrepreneurship Elective 3	BDE	3
	Entrepreneurship Elective 4	BDE	3
	CHEM MPE 1	MPE	3
	CHEM MPE 2	MPE	3
			20

Year 4 Semester 1

Course		Type	AU
CM4076	Overseas Entrepreneurship Programme (6-MONTH)	PS/ BDE	
	OR		10
CM4081^	Professional Internship	PS/ BDE	
			10

Year 4 Semester 2

Course		Type	AU
CM4080	Honours Project 1	MPE	10
	CHEM MPE 3	MPE	3
	CHEM MPE 4	MPE	3
			16

Total (AU)	**138/139***

This study plan is meant as a guide.
^10AU is taken from ICC Foundational Core
**Students without 'A' Level/Senior High School 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)
AY2026 - 2027 Intake onwards
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*		9			6	33/34*
	2	22		5	3	3	6	39
	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 and Workplace Readiness in a Dynamic 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	16
	CM4081^ Professional Internship	10	
	MLXXXX Profession Preparation	1	
	CLXXXX **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 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	58/59*
	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**			25^
	ET5001	Foundations of Innovation and Entrepreneurship	3	
	ET5003	Leading and Managing Growing Enterprises	3	
	ET5132	New Venture Financing	3	
	ET5135	Business Venture Implementation	3	
	Compulsory Experiential Programme			
	CM4076	Overseas Entrepreneurship Programme (6-MONTH)		
		OR	10^	
	CM4081^	Professional Internship		
	Elective Courses (to read 13 AU)			
	ET5051	DEEP Dive into Lean Startup	3	
	ET5053	Entrepreneurship Simulation	3	
	ET5054	Rethinking Innovation and Entrepreneurship for Sustainability	3	
	ET5055	Building Digital Ventures	3	
	ET5056	Entrepreneurship Sales & Marketing	3	
	ET5090	Turning Ideas into Compelling Pitches	1	
	ET5092	Experiencing Entrepreneurship	1	
	ET5122	E-Startups and Social Media Strategies	3	
	ET5216	Venture Capital Investment & Practicies	4	
	ET5218	Innovation and Commercialisation of Technologies	3	
	CB4216	Entrepreneurship in Medtech and Biotechnology	3	
	EE5083	From Passion to Action: Six Steps to a Start-up!	3	
	ET5212	Entrepreneurial Ecosystem	3	
	BU5302	Law of Intellectual Property & New Media	3	
	AB0603	Social Entrepreneurship	3	
	ABXXXX	Corporate Entrepreneurship	3	
	PS5888	Making and Tinkering	4	
	DR5004	Design and Systems Thinking	3	
	DV2003	Beyond the Logo: Introduction to Branding	3	
	Students are responsible to plan for their 2nd major courses			
Broadening and Deepening Electives (BDE)				5
Total				**133/134***

^10AU is taken from ICC Foundational Core (PS)

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[&] 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 AY2026-2027 intake
with Professional Internship

Year 1 Semester 1

Course		Type	AU
CM1001	Foundations of Chemistry I	C	4
MH1802	Calculus for the Sciences	C	4
CB1102	Introduction to Chemistry, Chemical and Biomedical Engineering	C	1
CC0001	Inquiry & Communication in an Interdisciplinary World	CC	2
CC0015	Health Wellbeing	CC	2
ET5001	Foundations of Innovation and Entrepreneurship	BDE	3
HW0001	*Introduction to Academic Communication* [#]		
			16

Year 1 Semester 2

Course		Type	AU
CM1002	Foundations of Chemistry II	C	4
CM1804	Mathematics for Chemistry	C	2
PH1011/	Physics or	C	3
PH1012*	Physics A *(For students without 'A' Level Physics)*	C	4
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
CC0007	Science & Technology for Humanity	CC	3
ET5132	New Venture Financing	BDE	3
			17/18*

[#] *for students who have not cleared QET*

Year 2 Semester 1

Course		Type	AU
CM2011	Analytical and Bioanalytical Chemistry	C	3
CM2021	Inorganic and Bioinorganic Chemistry	C	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	C	3
PS0001	Introduction to Computational Thinking	C	3
CC0006	Sustainability: Society, Economy & Environment	CC	3
ET5003	Leading and Managing Growing Enter	BDE	3
CLXXXX	Care, Serve, Learn	CSL	3
			21

Year 2 Semester 2

Course		Type	AU
CM2031	Organic and Bioorganic Chemistry	C	3
CM2041	Physical and Biophysical Chemistry 1	C	3
CM2062	Chemistry & Biological Chemistry Laboratory 2	C	3
CB2002	Introduction to Chemical and Biological Safety	C	1
PS0002	Introduction to Data Science and Artificial Intelligence	PS	3
ML0004	Career Design and Workplace Readiness in a Dynamic World	CC	2
ET5135	Business Venture Implementation	BDE	3
			18

Year 3 Semester 1

Course		Type	AU
CM3xxx[&]	CHEM-Core	C	3
CM3xxx[&]	CHEM-Core	C	3
CM3062	Chemistry & Biological Chemistry Laboratory 4	C	3
	Entrepreneurship Elective 1	BDE	3
	Entrepreneurship Elective 2	BDE	4
MLxxxx	Profession Preparation	PS	1
	BDE 1	BDE	3
			20

Year 3 Semester 2

Course		Type	AU
CM3xxx[&]	CHEM-Core	C	3
CM3xxx[&]	CHEM-Core	C	3
CM3061	Chemistry & Biological Chemistry Laboratory 3	C	3
HW0218	Communication Across the Sciences	PS	2
	Entrepreneurship Elective 3	BDE	3
	Entrepreneurship Elective 4	BDE	3
	BDE 2	BDE	2
			19

Year 4 Semester 1

Course		Type	AU
CM4076	Overseas Entrepreneurship Programme (6-MONTH)	PS/ BDE	10
	OR		
CM4081^	Professional Internship	PS/ BDE	
			10

Year 4 Semester 2

Course		Type	AU
	CHEM MPE 1	MPE	3
	CHEM MPE 2	MPE	3
	CHEM MPE 3	MPE	3
	CHEM MPE 4	MPE	3
			12

Total (AU) **133/134***

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**Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU).*
[&] *CM3xxx refers to CM3011, CM3021, CM3031, CM3041 - These courses are offered in both semesters*