

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG)								
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	1	18/19*		8			12	38/39*
	2	22		6	3	3	8	42
	3	18	12		3		5	38
	4		10		10		6	26
	Total	58/59*	22	14	16	3	31	144/145*
BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (ITG)								
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	
	CM4081 Professional Internship						10	
	MLXXXX Profession Preparation						1	
XXXXXX Care, Serve, Learn (University-level)						3	3	
Major Requirement	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	
	MH1802 Calculus for the Sciences						4	
	CM1804 Mathematics for Chemistry						2	
	PH1011 Physics or PH1012* Physics A						3/4*	
	CM2021 Inorganic and Bioinorganic Chemistry						3	
	CM2011 Analytical Chemistry						3	
	CM2061 Chemistry & Biological Chemistry Laboratory 1						3	
	PS0001 Introduction to Computational Thinking						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	
	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 Business - International Trading (ITG)	Business - International Trading Compulsory Courses							
	1) AB1201 Financial Management						3	31
	2) AB1501 Marketing						3	
	3) AD1102 Financial Accounting						3	
	4) AD2102 Management Accounting						3	
	5) BE1402 Business Operations & Process						3	
	6) BF2226 Trade Incoterms & Ship Chartering						3	
	7) BF2227 Commodity Markets						3	
	8) BF2302 International Tax & Trading Law						2	
	9) BF3212 Trade, Structured & Supply Chain Finance						2	
	10) BF3213 Enterprise Risk Management in Commodity Markets						2	
	11) BF3214 Commodities Trading						2	
	12) BF3226 Strategic Management in Commodity Market						2	
Total							144/145*	

*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 Business - International Trading (CHITG)							
Suggested Study Plan for AY2025-2026 intake							
FYP with Professional Internship							
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
AB1501	Marketing	BDE	3	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2
BE1402	Business Operations & Process	BDE	3	AD1102	Financial Accounting	BDE	3
HW0001	Introduction to Academic Communication [#]			AB1201	Financial Management	BDE	3
			19				19/20*
# 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
XXXXXX	Care, Serve, Learn	CSL	3	CC0007	Science & Technology for Humanity	CC	3
BF3214	Commodities Trading	BDE	2	AD2102	Management Accounting	BDE	3
			20	BF2227	Commodity Markets	BDE	3
							22
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		CHEM MPE 2	MPE	3
	CHEM MPE 1	MPE	3		CHEM MPE 3	MPE	3
MLxxxx	Profession Preparation	PS	1		CHEM MPE 4	MPE	3
BF2302	International Tax and Trading Law	BDE	2	BF2226	Trade Incoterms & Ship Chartering	BDE	3
			18				20
Year 4 Semester 1				Year 4 Semester 2			
Course		Type	AU	Course		Type	AU
CM4081	Professional Internship	PS	10	CM4080	Honours Project 1	MPE	10
					Trade, Structured & Supply Chain		
				BF3212	Finance	BDE	2
				BF3213	Enterprise Risk Management in Commodity Markets	BDE	2
				BF3226	Strategic Management in Commodity Market	BDE	2
			10				16
Total (AU)						144/145*	

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 Business - International Trading (CHITG)								
AY2025 - 2026 Intake onwards								
FYP with Professional Attachment								
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	1	18/19*		8			12	38/39*
	2	22		6	3	3	8	42
	3	18			8		6	32
	4		22				6	28
	Total	58/59*	22	14	11	3	32	140/141*
BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (ITG)								
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	11
	PS0002 Introduction to Data Science and Artificial Intelligence						3	
CM4082 Professional Attachment						5		
MLXXXX Profession Preparation						1		
XXXXXX Care, Serve, Learn (University-level)						3	3	
Major Requirement	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	
	MH1802 Calculus for the Sciences						4	
	CM1804 Mathematics for Chemistry						2	
	PH1011 Physics or PH1012* Physics A						3/4*	
	CM2021 Inorganic and Bioinorganic Chemistry						3	
	CM2011 Analytical Chemistry						3	
	CM2061 Chemistry & Biological Chemistry Laboratory 1						3	
	PS0001 Introduction to Computational Thinking						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	
	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 Business - International Trading (ITG)	Business - International Trading Compulsory Courses							
	1) AB1201 Financial Management						3	31
	2) AB1501 Marketing						3	
	3) AD1102 Financial Accounting						3	
	4) AD2102 Management Accounting						3	
	5) BE1402 Business Operations & Process						3	
	6) BF2226 Trade Incoterms & Ship Chartering						3	
	7) BF2227 Commodity Markets						3	
	8) BF2302 International Tax & Trading Law						2	
	9) BF3212 Trade, Structured & Supply Chain Finance						2	
	10) BF3213 Enterprise Risk Management in Commodity Markets						2	
	11) BF3214 Commodities Trading						2	
	12) BF3226 Strategic Management in Commodity Market						2	
BDE	Any 1 BDE						1	1
Total								140/141*

*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 Business - International Trading (CHITG)							
Suggested Study Plan for AY2025-2026 intake							
FYP with Professional Attachment							
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
AB1501	Marketing	BDE	3	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2
BE1402	Business Operations & Process	BDE	3	AD1102	Financial Accounting	BDE	3
HW0001	Introduction to Academic Communication #			AB1201	Financial Management	BDE	3
			19				19/20*
# 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
XXXXXX	Care, Serve, Learn	CSL	3	CC0007	Science & Technology for Humanity	CC	3
BF3214	Commodities Trading	BDE	2	AD2102	Management Accounting	BDE	3
			20	BF2227	Commodity Markets	BDE	3
							22
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
BF2302	International Tax and Trading Law	BDE	2	BF2226	Trade Incoterms & Ship Chartering	BDE	3
MLxxxx	Profession Preparation	PS	1	HW0218	Communication Across the Sciences	PS	2
	BDE	BDE	1	<u>Year 3 Special Sem</u>			
			13	CM4082	Professional Attachment	PS	5
							19
Year 4 Semester 1				Year 4 Semester 2			
Course		Type	AU	Course		Type	AU
	CHEM MPE 1	MPE	3	CM4080	Honours Project 1	MPE	10
	CHEM MPE 2	MPE	3	BF3212	Trade, Structured & Supply Chain Finance	BDE	2
	CHEM MPE 3	MPE	3	BF3213	Enterprise Risk Management in Commodity Markets	BDE	2
	CHEM MPE 4	MPE	3	BF3226	Strategic Management in Commodity Market	BDE	2
			12				16
Total (AU)						140/141*	

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 Business - International Trading (CHITG)								
AY2025 - 2026 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	1	18/19*		8			12	38/39*
	2	22		6	3	3	8	42
	3	18	6		3		11	38
	4		6		10		6	22
	Total	58/59*	12	14	16	3	37	140/141*
BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (ITG)								
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	
CM4081 Professional Internship						10		
MLXXXX Profession Preparation						1		
XXXXXX Care, Serve, Learn (University-level)						3	3	
Major Requirement	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	
	MH1802 Calculus for the Sciences						4	
	CM1804 Mathematics for Chemistry						2	
	PH1011 Physics or PH1012* Physics A						3/4*	
	CM2021 Inorganic and Bioinorganic Chemistry						3	
	CM2011 Analytical Chemistry						3	
	CM2061 Chemistry & Biological Chemistry Laboratory 1						3	
	PS0001 Introduction to Computational Thinking						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	
	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 Business - International Trading (ITG)	Business - International Trading Compulsory Courses							
	1) AB1201 Financial Management						3	31
	2) AB1501 Marketing						3	
	3) AD1102 Financial Accounting						3	
	4) AD2102 Management Accounting						3	
	5) BE1402 Business Operations & Process						3	
	6) BF2226 Trade Incoterms & Ship Chartering						3	
	7) BF2227 Commodity Markets						3	
	8) BF2302 International Tax & Trading Law						2	
	9) BF3212 Trade, Structured & Supply Chain Finance						2	
	10) BF3213 Enterprise Risk Management in Commodity Markets						2	
	11) BF3214 Commodities Trading						2	
	12) BF3226 Strategic Management in Commodity Market						2	
BDE	Any 2 BDE						6	6
Total								140/141*

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

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BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG)							
Suggested Study Plan for AY2025-2026 intake							
with Professional Internship							
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
AB1501	Marketing	BDE	3	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2
BE1402	Business Operations & Process	BDE	3	AD1102	Financial Accounting	BDE	3
HW0001	Introduction to Academic Communication #			AB1201	Financial Management	BDE	3
			19				19/20*
# 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
XXXXXX	Care, Serve, Learn	CSL	3	CC0007	Science & Technology for Humanity	CC	3
BF3214	Commodities Trading	BDE	2	AD2102	Management Accounting	BDE	3
			20	BF2227	Commodity Markets	BDE	3
							22
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
BF2302	International Tax and Trading Law	BDE	2	BF2226	Trade Incoterms & Ship Chartering	BDE	3
MLxxxx	Profession Preparation	PS	1	HW0218	Communication Across the Sciences	PS	2
	BDE 1	BDE	3		CHEM MPE 1	MPE	3
	BDE 2	BDE	3		CHEM MPE 2	MPE	3
			18				20
Year 4 Semester 1				Year 4 Semester 2			
Course		Type	AU	Course		Type	AU
CM4081	Professional Internship	PS	10		CHEM MPE 3	MPE	3
					CHEM MPE 4	MPE	3
					Trade, Structured & Supply Chain Finance	BDE	2
				BF3212	Finance	BDE	2
				BF3213	Enterprise Risk Management in Commodity Markets	BDE	2
				BF3226	Strategic Management in Commodity Market	BDE	2
			10				12
Total (AU)						140/141*	

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