

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG)

AY2022 - 2023 Intake

with Professional Internship

Programme	Year of Study	Number of Academic Units (AU)					Total
		Major		Interdisciplinary		Broadening and Deepening Electives (BDE)	
		Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)		
Chemistry and Biological Chemistry	1	24		6		12	42
	2	21		11	3	9	44
	3	18			2	15	35
	4		12		10	4	26
	Total	63	12	17	15	40	147

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - ITG

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 World		2	
	Foundational Core (College-level)			
	HW0218 Communication Across the Sciences		2	15
PS0002 Introduction to Data Science and Artificial Intelligence		3		
CM4081 Professional Internship		10		

Major Requirement	CHEM Core			
	CM1021	Basic Inorganic Chemistry with Laboratory	4	24
	CM1031	Basic Organic Chemistry with Laboratory	4	
	MH1802	Calculus for the Sciences	4	
	CM1041	Basic Physical Chemistry with Laboratory	4	
	CM1051	Basic Biological Chemistry	3	
	MH1804	Mathematics for Chemistry	2	
PH1801	Foundation of Physics 1	3		

Major Requirement	CM2011 Analytical Chemistry	3	39
	CM2021 Inorganic and Bioinorganic Chemistry	3	
	CM2061 Chemistry & Biological Chemistry	3	
	PS0001 Introduction to Computational Thinking	3	
	CM2031 Organic and Bioorganic Chemistry	3	
	CM2041 Physical and Biophysical Chemistry 1	3	
	CM2062 Chemistry & Biological Chemistry	3	
	CM3011 Chemical Spectroscopy and Applications	3	
	CM3041 Physical and Biophysical Chemistry 2	3	
	CM3062 Chemistry & Biological Chemistry	3	
	CM3021 Organometallic Chemistry	3	
	CM3031 Organic Reaction Mechanisms and	3	
	CM3061 Chemistry & Biological Chemistry	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) BF2216 Trade Incoterms & Ship Chartering	4	
	7) BF2218 Commodity Markets	4	
	8) BF2302 International Tax & Trading Law	2	
	9) BF3212 Trade, Structured & Supply Chain Finance	2	
	10) BF3213 Enterprise Risk Management in	2	
	11) BF3214 Commodities Trading	2	

BDE	Any 3 BDE	9	9
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Total

147

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG)**Suggested Study Plan for AY2021-2022 intake***with Professional Internship***Year 1 Semester 1**

Course	Type	AU
CM1021 Basic Inorganic Chemistry with Laboratory	C	4
CM1031 Basic Organic Chemistry with Laboratory	C	4
MH1802 Calculus for the Sciences	C	4
CC0002 Navigating the Digital World	CC	2
AB1501 Marketing	BDE	3
BE1402 Business Operations & Processes	BDE	3
		20

for students who have not cleared QET*Year 2 Semester 1**

Course	Type	AU
CM2011 Analytical 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
ML0004 Career & Entrepreneurial Development for the Future World	CC	2
CC0005 Healthy Living and Wellbeing	CC	3
CC0006 Sustainability: Society, Economy & Environment	CC	3
BF3214 Commodities Trading	BDE	2
		22

Year 3 Semester 1

Course	Type	AU
CM3011 Chemical Spectroscopy and Applications	C	3
CM3041 Physical and Biophysical Chemistry 2	C	3
CM3062 Chemistry & Biological Chemistry Laboratory 4	C	3
BF2302 International Tax & Trading Law	BDE	2
Broadening and Deepening Electives 1	BDE	3
Broadening and Deepening Electives 2	BDE	3
		17

Year 4 Semester 1

Course	Type	AU
CM4XXX CHEM MPE	MPE	3
CM4XXX CHEM MPE	MPE	3
CM4XXX CHEM MPE	MPE	3
CM4XXX CHEM MPE	MPE	3
BF3212 Trade, Structured & Supply Chain Finance	BDE	2
BF3213 Enterprise Risk Management in Commodity Markets	BDE	2
		16

Year 1 Semester 2

Course	Type	AU
CM1041 Basic Physical Chemistry with Laboratory	C	4
CM1051 Basic Biological Chemistry	C	3
MH1804 Mathematics for Chemistry	C	2
PH1801 Foundation of Physics 1	C	3
CC0001 Inquiry and Communication in an Interdisciplinary World	CC	2
CC0003 Ethics & Civics in a Multicultural World	CC	2
AB1201 Financial Management	BDE	3
AD1102 Financial Accounting	BDE	3
		22

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
CC0007 Science & Technology for Humanity	CC	3
PS0002 Introduction to Data Science and Artificial Intelligence	FC	3
AD2102 Management Accounting	BDE	3
BF2218 Commodity Markets	BDE	4
		22

Year 3 Semester 2

Course	Type	AU
CM3021 Organometallic Chemistry	C	3
CM3031 Organic Reaction Mechanisms and Synthesis	C	3
CM3061 Chemistry & Biological Chemistry Laboratory 3	C	3
HW0218 Effective Communication 2	FC	2
BF2216 Trade Incoterms & Ship Chartering	BDE	4
Broadening and Deepening Electives 3	BDE	3
		18

Year 4 Semester 2

Course	Type	AU
CM4081 Professional Internship	FC	10
		10

Total (AU)**147**

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG)

AY2022 - 2023 Intake

FYP with Professional Attachment

Programme	Year of Study	Number of Academic Units (AU)					
		Major		Interdisciplinary		Broadening and Deepening Electives (BDE)	Total
		Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)		
Chemistry and Biological Chemistry	1	24		6		12	42
	2	21		11	3	9	44
	3	18			7	8	33
	4		22			6	28
	Total	63	22	17	10	35	147

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - ITG

Category	AU	Total AU
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Interdisciplinary Collaborative Core (ICC)	Common Core (University-level)		
	CC0001 Inquiry and Communication in the Interdisciplinary	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	2	
	Foundational Core (College-level)		
	HW0218 Communication Across the Sciences	2	10
PS0002 Introduction to Data Science and Artificial	3		
CM4082 Professional Attachment	5		

Major Requirement	CHEM Core		
	CM1021 Basic Inorganic Chemistry with Laboratory	4	24
	CM1031 Basic Organic Chemistry with Laboratory	4	
	MH1802 Calculus for the Sciences	4	
	CM1041 Basic Physical Chemistry with Laboratory	4	
	CM1051 Basic Biological Chemistry	3	
	MH1804 Mathematics for Chemistry	2	
	PH1801 Foundation of Physics 1	3	

Major Requirement	CM2011 Analytical Chemistry	3	39
	CM2021 Inorganic and Bioinorganic 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	
	CM3011 Chemical Spectroscopy and Applications	3	
	CM3041 Physical and Biophysical Chemistry 2	3	
	CM3062 Chemistry & Biological Chemistry Laboratory 4	3	
	CM3021 Organometallic Chemistry	3	
	CM3031 Organic Reaction Mechanisms and Synthesis	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) BF2216 Trade Incoterms & Ship Chartering	4	
	7) BF2218 Commodity Markets	4	
	8) BF2302 International Tax & Trading Law	2	
	9) BF3212 Trade, Structured & Supply Chain Finance	2	
	10) BF3213 Enterprise Risk Management in Commodity	2	
	11) BF3214 Commodities Trading	2	

BDE	Any 2 BDE	4	4
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Total

147

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG)

Suggested Study Plan for AY2021-2022 intake

FYP with Professional Attachment Option

Year 1 Semester 1

Course	Type	AU
CM1021 Basic Inorganic Chemistry with Laboratory	C	4
CM1031 Basic Organic Chemistry with Laboratory	C	4
MH1802 Calculus for the Sciences	C	4
CC0002 Navigating the Digital World	CC	2
AB1501 Marketing	BDE	3
BE1402 Business Operations & Processes	BDE	3

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*for students who have not cleared QET

Year 2 Semester 1

Course	Type	AU
CM2011 Analytical 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
ML0004 Career & Entrepreneurial Development for the Future World	CC	2
CC0005 Healthy Living and Wellbeing	CC	3
CC0006 Sustainability: Society, Economy & Environment	CC	3
BF3214 Commodities Trading	BDE	2

22**Year 3 Semester 1**

Course	Type	AU
CM3011 Chemical Spectroscopy and Applications	C	3
CM3041 Physical and Biophysical Chemistry 2	C	3
CM3062 Chemistry & Biological Chemistry Laboratory 4	C	3
BF2302 International Tax & Trading Law	BDE	2

11**Year 4 Semester 1**

Course	Type	AU
CM4XXX CHEM MPE	MPE	3
CM4XXX CHEM MPE	MPE	3
CM4XXX CHEM MPE	MPE	3
CM4XXX CHEM MPE	MPE	3
BF3212 Trade, Structured & Supply Chain Finance	BDE	2
BF3213 Enterprise Risk Management in Commodity Markets	BDE	2

16**Year 1 Semester 2**

Course	Type	AU
CM1041 Basic Physical Chemistry with Laboratory	C	4
CM1051 Basic Biological Chemistry	C	3
MH1804 Mathematics for Chemistry	C	2
PH1801 Foundation of Physics 1	C	3
CC0001 Inquiry and Communication in an Interdisciplinary World	CC	2
CC0003 Ethics & Civics in a Multicultural World	CC	2
AB1201 Financial Management	BDE	3
AD1102 Financial Accounting	BDE	3

22**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
CC0007 Science & Technology for Humanity	CC	3
PS0002 Introduction to Data Science and Artificial Intelligence	FC	3
AD2102 Management Accounting	BDE	3
BF2218 Commodity Markets	BDE	4

22**Year 3 Semester 2**

Course	Type	AU
CM3021 Organometallic Chemistry	C	3
CM3031 Organic Reaction Mechanisms and Synthesis	C	3
CM3061 Chemistry & Biological Chemistry Laboratory 3	C	3
HW0218 Effective Communication 2	FC	2
BF2216 Trade Incoterms & Ship Chartering	BDE	4
Broadening and Deepening Electives 1	BDE	2

Year 3 Special Sem

Course	Type	AU
CM4082 Professional Attachment	FC	5

22**Year 4 Semester 2**

Course	Type	AU
CM4080 Honours Project 1	MPE	10
Broadening and Deepening Electives 2		2

12**Total (AU)****147**