BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG) AY2022 - 2023 Intake onwards

with Professional Internship

			1	Number of Acad	lemic Units (AL	I)	
_	Year of	Major Re	quirement	Interdise	ciplinary	Broadening and	
Programme	Study	Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)	Deepening Electives (BDE)	Total
	1	17		6		12	35
Chemistry and	2	21		11	3	8	43
Biological	3	18			2	14	34
Chemistry	4		12		10	6	28
	Total	56	12	17	15	40	140
PSe in Chamistry	and Biolog	ical Chamistra	with 2nd Maia		etomotional Tr	ading (CUITC)	
BSc in Chemistry Category	and Biolog	ical Chemistry	with 2nd Majo	r in Business - II	nternational ir	AU	Total AU
	Common (Core (Universit	y-level)				
	CC0001 In	quiry and Com	nunication in th	ne Interdisciplina	ary World	2	
		vigating the Di		·	-	2	
			a Multi-Cultura	l World		2	
		ealthy Living &		-		3	
			-	& Environment		3	17
Interdisciplinary			ology for Humar			3	
Collaborative Core (ICC)			•	elopment for th	e Future	2	
	World					2	
	Foundatio	nal Core (Colle	ge-level)				
		-	Across the Scie	nces		2	
				Artificial Intelli	gence	3	15
		rofessional Inte			5	10	-
	CHEM Cor						
	CM1001	Foundations o	•			4	
	CM1002	Foundations o				4	
	MH1802	Calculus for th				4	
	MH1804	Mathematics f				2	
	PH1801	Foundations o	-			3	
	CM2021	-	Bioinorganic Ch	emistry		3	
	CM2011	Analytical Che	-			3	
	CM2061		•	stry Laboratory	1	3	
	PS0001		o Computationa	•		3	56
Major	CM2031	-	oorganic Chem	-		3	
Requirement	CM2041		iophysical Chen			3	
	CM2062			stry Laboratory	2	3	
			troscopy and A			3	
	CM3041 ^{&}	Physical and B	iophysical Chen	nistry 2		3	
	CM3062			stry Laboratory	4	3	
	CM3031 ^{&}	Organic React	on Mechanism	s and Synthesis		3	
	CM3021 ^{&}	Organometalli	c Chemistry			3	
	CM3061	Chemistry & B	iological Chemi	stry Laboratory	3	3	
	CHEM Mai	or Prescribed	Electives (MPE)				
	i		(IIII E)				

	Business - International Trading Compulsory Courses		
	1) AB1201 Financial Management	3	
	2) AB1501 Marketing	3	
	3) AD1102 Financial Accounting	3	
and Major in	4) AD2102 Management Accounting	3	
2nd Major in Business -	5) BE1402 Business Operations & Process	3	
International	6) BF2226 Trade Incoterms & Ship Chartering	3	31
Trading (ITG)	7) BF2227 Commodity Markets	3	51
frauing (frG)	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	
DE	Any 3 BDE	9	9

[&]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 AY2022-2023 intake

with Professional Internship

Year 1 Sem	nester 1		
Course		Туре	AU
CM1001	Foundations of Chemistry I	С	4
MH1802	Calculus for the Sciences	С	4
CC0002	Navigating the Digital World	CC	2
AB1501	Marketing	BDE	3
BE1402	Business Operations & Process	BDE	3
HW0001	Introduction to Academic Communic	cation*	
*for studer	nts who have not cleared QET		16

Year 2 Semester 1

Course		Туре	AU
CM2011	Analytical and Bioanalytical Chemistry	С	3
CM2021	Inorganic and Bioinorganic Chemistry	С	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	С	3
PS0001	Introduction to Computational Thinking	С	3
CC0006	Sustainability: Society, Economy & Environment	СС	3
ML0004	Career and Entrepreneurial Development for the Future World	СС	2
CC0005	Healthy Living & Wellbeing	CC	3
BF3214	Commodities Trading	BDE	2
			22

Year 3 Semester 1

Course		Туре	AU
CM3xxx ^{&}	CHEM-Core	С	3
CM3xxx ^{&}	CHEM-Core	С	3
CM3062	Chemistry & Biological Chemistry Laboratory 4	С	3
BF2302	International Tax and Trading Law	BDE	2
	BDE 1	BDE	3
	BDE 2	BDE	3

17

Year 4 Semester 1

Course		Туре	AU
	CHEM MPE1	MPE	3
	CHEM MPE2	MPE	3
	CHEM MPE3	MPE	3
	CHEM MPE4	MPE	3
BF3212	Trade, Structured & Supply Chain Finance	BDE	2
BF3226	Strategic Management in Commodity Market	BDE	2
			16

Year 1 Sem	nester 2		
Course		Туре	AU
CM1002	Foundations of Chemistry II	С	4
MH1804	Mathematics for Chemistry	С	2
PH1801	Foundations of Physics I	С	3
CC0001	Inquiry and Communication in an interdisciplinary World	CC	2
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
AD1102	Financial Accounting	BDE	3
AB1201	Financial Management	BDE	3

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21

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Year 2 Semester 2

Course		Туре	AU
CM2031	Organic and Bioorganic Chemistry	С	3
CM2041	Physical and Biophysical Chemistry 1	С	3
CM2062	Chemistry & Biological Chemistry Laboratory 2	С	3
PS0002	Introduction to Data Science and Artificial Intelligence	FC	3
CC0007	Science & Technology for Humanity	СС	3
AD2102	Management Accounting	BDE	3
BF2227	Commodity Markets	BDE	3

Year 3 Semester 2

Total (AU)

Year 3 Sen			
Course		Туре	AU
CM3xxx ^{&}	CHEM-Core	С	3
CM3xxx ^{&}	CHEM-Core	С	3
CM3061	Chemistry & Biological Chemistry Laboratory 3	С	3
BF2226	Trade Incoterms & Ship Chartering	BDE	3
	BDE 3	BDE	3
HW0218	Communication Across the Sciences	FC	2
			17
Year 4 Sem Course	nester 2	Type	AU
Year 4 Sem Course CM4081	nester 2 Professional Internship	Type FC	AU 10
Course			

This study plan is meant as a guide.

[&] 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) AY2022 - 2023 Intake onwards FYP with Professional Attachment

				Number of Acad)	
Due gue un un e	Year of	Major Re	equirement	Interdis	ciplinary	Broadening and	
Programme	Study	Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)	Deepening Electives (BDE)	Total
	1	17		6		12	35
Chemistry and	2	21		11	3	8	43
Biological	3	18			7	9	34
Chemistry	4		22			6	28
	Total	56	22	17	10	35	140
BSc in Chemistry	and Biolog	gical Chemistry	y with 2nd Majo	or in Business - I	nternational Tr		
Category	Common		hu laval)			AU	Total AU
		Core (Universi			a m /) A / a m l al		
			munication in th	ie interdisciplina	ary world	2	
		avigating the D	-	Mode		2	
			a Multi-Cultura			2	
		ealthy Living &	-	9. Environment		3	17
Interdisciplinary		-	ociety, Economy			3	
Collaborative			ology for Humar	-	a Future	3	
Core (ICC)	World	areer and Entr	epreneurial Dev	elopment for th	e Future	2	
		nal Core (Colle					
			h Across the Scie			2	
			Data Science and	Artificial Intelli	gence	3	10
	CM4082 P	rofessional Att	tachment			5	
	CHEM Cor	e					
	CM1001	Foundations of	of Chemistry I			4	
	CM1002	Foundations of	of Chemistry II			4	
	MH1802	Calculus for the	ne Sciences			4	
	MH1804	Mathematics	for Chemistry			2	
	PH1801	Foundations of	of Physics I			3	
	CM2021	Inorganic and	Bioinorganic Ch	emistry		3	
	CM2011	Analytical Che	-	-		3	
	CM2061		, Biological Chemi	stry Laboratory	1	3	
		-	o Computationa			3	F.6
			Bioorganic Chem	0		3	56
Major		-	Biophysical Chen			3	
Requirement	CM2062	-	Biological Chemi	-	2	3	
			ctroscopy and A	• •		3	
			Biophysical Chen			3	
		-	Biological Chemi	-	4	3	
		-	tion Mechanisms			3	
		Organometal				3	
	CM3061		Biological Chemi	stry Laboratory	3	3	
					-		
	CHEM Mai	ior Prescribed	Electives (MPE)				
	CM4080	Honours Proje				10	

	Business - International Trading Compulsory Courses		
	1) AB1201 Financial Management	3	
	2) AB1501 Marketing	3	
	3) AD1102 Financial Accounting	3	
and Major in	4) AD2102 Management Accounting	3	
2nd Major in	5) BE1402 Business Operations & Process	3	
Business -	6) BF2226 Trade Incoterms & Ship Chartering	3	31
International	7) BF2227 Commodity Markets	3	51
Trading (ITG)	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	
		-	
3DE	Any 2 BDE	4	4

[&]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 AY2022-2023 intake

FYP with Professional Attachment Option

	nester 1		
Course		Туре	AU
CM1001	Foundations of Chemistry I	С	4
MH1802	Calculus for the Sciences	С	4
CC0002	Navigating the Digital World	CC	2
AB1501	Marketing	BDE	3
BE1402	Business Operations & Process	BDE	3
HW0001	Introduction to Academic Communicati	ion*	
			16
*for stude	nts who have not cleared QET		
Year 2 Sen	nester 1	_	
Course		Туре	AU
CM2011	Analytical and Bioanalytical Chemistry	С	3
CM2021	Inorganic and Bioinorganic Chemistry	С	3
CM2021 CM2061	Chemistry & Biological Chemistry	C C	3 3
CM2061	с с ,	C	3
	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking		
CM2061	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational	C	3
CM2061 PS0001	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking Sustainability: Society, Economy & Environment Career and Entrepreneurial	C C	3
CM2061 PS0001 CC0006	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking Sustainability: Society, Economy & Environment	c c cc	3 3 3
CM2061 PS0001 CC0006 ML0004	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking Sustainability: Society, Economy & Environment Career and Entrepreneurial Development for the Future World	c c cc cc	3 3 3 2
CM2061 PS0001 CC0006 ML0004 CC0005	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking Sustainability: Society, Economy & Environment Career and Entrepreneurial Development for the Future World Healthy Living & Wellbeing	c c cc cc cc cc	3 3 3 2 3
CM2061 PS0001 CC0006 ML0004 CC0005	Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking Sustainability: Society, Economy & Environment Career and Entrepreneurial Development for the Future World Healthy Living & Wellbeing Commodities Trading	c c cc cc cc cc	3 3 3 2 3 2

Course		Туре	AU
CM1002	Foundations of Chemistry II	С	4
MH1804	Mathematics for Chemistry	С	2
PH1801	Foundations of Physics I	С	3
CC0001	Inquiry and Communication in an interdisciplinary World	СС	2
CC0003	Ethics & Civics in a Multi-Cultural World	СС	2
AD1102	Financial Accounting	BDE	3
AB1201	Financial Management	BDE	3

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140

Year 2 Semester 2

Total (AU)

Year 1 Semester 2

Course		Туре	AU
CM2031	Organic and Bioorganic Chemistry	С	3
CM2041	Physical and Biophysical Chemistry 1	С	3
CM2062	Chemistry & Biological Chemistry Laboratory 2	С	3
PS0002	Introduction to Data Science and Artificial Intelligence	FC	3
CC0007	Science & Technology for Humanity	СС	3
AD2102	Management Accounting	BDE	3
BF2227	Commodity Markets	BDE	3

			21
Year 3 Sem	nester 2		
Course		Туре	AU
CM3xxx ^{&}	CHEM-Core	С	3
CM3xxx ^{&}	CHEM-Core	С	3
CM3061	Chemistry & Biological Chemistry Laboratory 3	С	3
BF2226	Trade Incoterms & Ship Chartering	BDE	3
HW0218	Communication Across the Sciences	FC	2
<u>Year 3 Spe</u> CM4082	<u>cial Sem</u> Professional Attachment	FC	5
			19
Year 4 Sem	nester 2		
Course		Туре	AU
CM4080	Honours Project 1	MPE	10
	CHEM MPE4	MPE	3

Year 4 Semester 1

CM3xxx[&]

CM3xxx[&]

CM3062

BF2302

CHEM-Core

CHEM-Core

Laboratory 4

BDE 1

BDE 2

Chemistry & Biological Chemistry

International Tax and Trading Law

Course		Туре	AU
	CHEM MPE1	MPE	3
	CHEM MPE2	MPE	3
	CHEM MPE3	MPE	3
BF3212	Trade, Structured & Supply Chain Finance	BDE	2
BF3213	Enterprise Risk Management in Commodity Markets	BDE	2
BF3226	Strategic Management in Commodity Market	BDE	2
			15

This study plan is meant as a guide.

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

С

С

С

BDE

BDE

BDE

3

3

3

2

2

2

15

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG) AY2022 - 2023 Intake onwards

with Professional Internship and FYP

		Number of Academic Units (AU)						
Drogramma	Year of	Major Re	equirement	Interdise	ciplinary	Broadening and		
Programme	Study	Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)	Deepening Electives (BDE)	Total	
	1	17		6		12	35	
Chemistry and	2	21		11	3	8	43	
Biological	3	18	9		2	5	34	
Chemistry	4		13		10	6	29	
	Total	56	22	17	15	31	141	
BSc in Chemistry Category	and Biolog	gical Chemistr	y with 2nd Majo	r in Business - I	nternational Tr	ading (CHITG) AU	Total AU	
category	Common (Core (Universi	tv-lovol)			AU	TOLATAO	
		-	munication in th	o Intordisciplin	any World	2		
		avigating the D				2		
			n a Multi-Cultura	l World		2		
		althy Living &				2		
			ociety, Economy	& Environment		3	17	
Interdisciplinary		-	ology for Humar			3		
Collaborative			epreneurial Dev	-	e Future	5		
Core (ICC)	World				eruture	2		
	Foundational Core (College-level)							
			n Across the Scie	nces		2		
			Data Science and		gence	3	15	
		rofessional Int				10		
			I					
	CHEM Cor							
		Foundations	-			4		
			of Chemistry II			4		
	MH1802	Calculus for t				4		
			for Chemistry			2		
		Foundations o		• .		3		
		-	Bioinorganic Ch	emistry		3		
	CM2011	Analytical Che	-			3		
	CM2061	-	Biological Chemis		1	3		
			to Computationa	-		3	56	
Major	CM2031	-	Bioorganic Chem	-		3	-	
Requirement			Biophysical Chem	-	-	3		
	CM2062		Biological Chemis		2	3		
			ctroscopy and A			3		
			Biophysical Chen		_	3		
	CM3062		Biological Chemis		4	3		
		-	tion Mechanisms	s and Synthesis		3		
		Organometal	-			3		
	CM3061	Chemistry & I	Biological Chemis	stry Laboratory	3	3		
	-		Electives (MPE)					
	CM4080	Honours Proj	ect 1			10	22	
	4 x MPEs					12		

	Business - International Trading Compulsory Courses		
	1) AB1201 Financial Management	3	
	2) AB1501 Marketing	3	
	3) AD1102 Financial Accounting	3	
	4) AD2102 Management Accounting	3	
2nd Major in	5) BE1402 Business Operations & Process	3	
Business -	6) BF2226 Trade Incoterms & Ship Chartering	3	31
International	7) BF2227 Commodity Markets	3	51
Trading (ITG)	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	
otal			141

[&]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 AY2022-2023 intake

with Professional Internship and FYP

Year 1 Sen	nester 1		
Course		Туре	AU
CM1001	Foundations of Chemistry I	С	4
MH1802	Calculus for the Sciences	С	4
CC0002	Navigating the Digital World	CC	2
AB1501	Marketing	BDE	3
BE1402	Business Operations & Process	BDE	3
HW0001	Introduction to Academic Communi	cation*	
*for stude	nts who have not cleared QET		16
-	-		

r 2 Semester 1

Year 2 Sen	nester 1		
Course		Туре	AU
CM2011	Analytical and Bioanalytical Chemistry	С	3
CM2021	Inorganic and Bioinorganic Chemistry	С	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	С	3
PS0001	Introduction to Computational Thinking	С	3
CC0006	Sustainability: Society, Economy & Environment	СС	3
ML0004	Career and Entrepreneurial Development for the Future World	СС	2
CC0005	Healthy Living & Wellbeing	CC	3
BF3214	Commodities Trading	BDE	2
			22

Year 3 Semester 1

Course		Туре	AU
CM3xxx ^{&}	CHEM-Core	С	3
CM3xxx ^{&}	CHEM-Core	С	3
CM3xxx ^{&}	CHEM-Core	С	3
CM3xxx ^{&}	CHEM-Core	С	3
CM3062	Chemistry & Biological Chemistry Laboratory 4	С	3
BF2302	International Tax and Trading Law	BDE	2

Year 4 Semester 1

	Туре	AU
Honours Project 1	MPE	10
Trade, Structured & Supply Chain Finance	BDE	2
Enterprise Risk Management in Commodity Markets	BDE	2
CHEM MPE 4	MPE	3
Strategic Management in Commodity Market	BDE	2
		19
	Trade, Structured & Supply Chain Finance Enterprise Risk Management in Commodity Markets CHEM MPE 4 Strategic Management in Commodity	Honours Project 1 MPE Trade, Structured & Supply Chain BDE Finance BDE Enterprise Risk Management in BDE Commodity Markets MPE CHEM MPE 4 MPE Strategic Management in Commodity BDF

Year 1 Semester 2						
Course		Туре	AU			
CM1002	Foundations of Chemistry II	С	4			
MH1804	Mathematics for Chemistry	С	2			
PH1801	Foundations of Physics I	С	3			
CC0001	Inquiry and Communication in an interdisciplinary World	СС	2			
CC0003	Ethics & Civics in a Multi-Cultural World	СС	2			
AD1102	Financial Accounting	BDE	3			
AB1201	Financial Management	BDE	3			

Year 2 Semester 2

Course		Туре	AU
CM2031	Organic and Bioorganic Chemistry	С	3
CM2041	Physical and Biophysical Chemistry 1	С	3
CM2062	Chemistry & Biological Chemistry Laboratory 2	С	3
PS0002	Introduction to Data Science and Artificial Intelligence	FC	3
CC0007	Science & Technology for Humanity	СС	3
AD2102	Management Accounting	BDE	3
BF2227	Commodity Markets	BDE	3

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Year 3 Semester 2			
Course		Туре	AU
CM3061	Chemistry & Biological Chemistry Laboratory 3	С	3
BF2226	Trade Incoterms & Ship Chartering	BDE	3
HW0218	Communication Across the Sciences	FC	2
	CHEM MPE 1	MPE	3
	CHEM MPE 2	MPE	3
	CHEM MPE 3	MPE	3
			17
Year 4 Semester 2			
Course		Туре	AU
CM4081	Professional Internship	FC	10
			10
	Total (AU)		141

This study plan is meant as a guide.

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

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