AY2023 - 2024 Intake onwards

with Professional Internship

		Main D		Number of Acad			
Programme	Year of Study		Major PE (MPE)	Common Core (CC)	ciplinary Foundational Core	Broadening and Deepening	Total
		Core (C)		common core (cc)	(FC)	Electives (BDE)	
	1	17/18*		6		12	35/36*
Chemistry and	2	21		11	3	8	43
Biological	3	18			2	14	34
Chemistry	4		12		10	6	28
	Total	56/57*	12	17	15	40	140/141*
BSc in Chemistry	and Biolog	ical Chemistry	with 2nd Maio	r in Business - Ir	ternational Tra	ding (ITG)	
Category						AU	Total AU
	Common C	Core (Universit	y-level)				
	CC0001 Inc	quiry and Com	munication in th	e Interdisciplina	iry World	2	
	CC0002 Na	vigating the D	igital World			2	
	CC0003 Et	hics & Civics in	a Multi-Cultural	World		2	
	СС0005 Не	ealthy Living &	3	47			
last and the last			ciety, Economy	& Environment		3	17
Interdisciplinary			ology for Humar			3	
Collaborative Core (ICC)			epreneurial Deve	-	- Euturo World	2	
						2	
	Foundatio	nal Core (Colle	موراميروا)				
		-	Across the Scie	ncos		2	
			ata Science and		0000	2 3	15
		rofessional Inte		Artificial intellig	sence	10	15
	0011		emanp			10	
	CHEM Core	e					
	CM1001	Foundations of	of Chemistry I			4	
	CM1002	Foundations of	of Chemistry II			4	
	MH1802	Calculus for th	e Sciences	4			
	CM1804	Mathematics	for Chemistry	2			
	PH1011	Physics or PH2	L012* Physics A			3/4*	
	CM2021	Inorganic and	Bioinorganic Ch	emistry		3	
	CM2011	Analytical Che	mistry			3	
	CM2061	Chemistry & E	iological Chemis	stry Laboratory 2	L	3	
	PS0001	Introduction t	o Computationa	l Thinking		3	
Major	CM2031	Organic and B	ioorganic Chemi	istry		3	56/57*
Requirement		•	iophysical Chem			3	-
	CM2062		iological Chemis		2	3	
		Chemical Spectroscopy and Applications				3	
		-	iophysical Chem	-		3	
		-	siological Chemis	-	1	3	
		-	ion Mechanisms			3	
		Organometall		,		3	
		-	iological Chemis	stry Laboratory 3	3	3	
		D	Flaget (2005)				
	CHEM Maj 4 x MPEs	or Prescribed	Electives (MPE)				
						12	12

	10) BF3213 Enterprise Risk Management in Commodity Markets 11) BF3214 Commodities Trading	2	
. .,	8) BF2302 International Tax & Trading Law9) BF3212 Trade, Structured & Supply Chain Finance	2 2	
International Trading (ITG)	7) BF2227 Commodity Markets	3	31
Business -	5) BE1402 Business Operations & Process6) BF2226 Trade Incoterms & Ship Chartering	3	
2nd Major in	4) AD2102 Management Accounting	3	
	2) AB1501 Marketing3) AD1102 Financial Accounting	3	
	Business - International Trading Compulsory Courses 1) AB1201 Financial Management	3	

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

[&] CM3011, CM3021. CM3031, CM3041 are offered in both semesters.

Suggested Study Plan for AY2023-2024 intake

with Professional Internship

nester 1		
	Туре	AU
Foundations of Chemistry I	С	4
Calculus for the Sciences	С	4
Navigating the Digital World	CC	2
Marketing	BDE	3
Business Operations & Process	BDE	3
	Foundations of Chemistry I Calculus for the Sciences Navigating the Digital World Marketing	TypeFoundations of Chemistry ICCalculus for the SciencesCNavigating the Digital WorldCCMarketingBDE

HW0001 Introduction to Academic Communication #

Year 1 Sem	nester 2		
Course		Туре	AU
CM1002	Foundations of Chemistry II	С	4
CM1804	Mathematics for Chemistry	С	2
PH1011/	Physics <u>or</u>	С	3
PH1012*	Physics A (For students without 'A' Level Physics)	С	4
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

19/20*

21

17

AU

10

10 140/141*

Туре

FC

[#] for students who have not cleared QET

Vear 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

Year 4 Semester 1

Course

BF3212

BF3213

BF3226

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

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

17

16

Year 3 Semester 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
	BDE 3	BDE	3
HW0218	Communication Across the Sciences	FC	2

TypeAUCourseCHEM MPE1MPE3CM4081Professional InternshipCHEM MPE2MPE33CM4081Professional InternshipCHEM MPE3MPE33CHEM MPE4MPE3CHEM MPE4MPE33CHEM Supply Chain BDE2COURSECOURSEEnterprise Risk Management in Commodity MarketsBDE2COURSECOURSEStrategic Management in Commodity MarketBDE2COURSECOURSE	ester 1			Year 4 Ser	nester 2
CHEM MPE2MPE3CHEM MPE3MPE3CHEM MPE4MPE3Trade, Structured & Supply Chain FinanceBDE2Enterprise Risk Management in Commodity MarketsBDE2Strategic Management in Commodity BDE2		Туре	AU	Course	
CHEM MPE3MPE3CHEM MPE4MPE3Trade, Structured & Supply Chain FinanceBDE2Enterprise Risk Management in Commodity MarketsBDE2Strategic Management in Commodity BDEBDE2	CHEM MPE1	MPE	3	CM4081	Professional Internship
CHEM MPE4MPE3Trade, Structured & Supply Chain FinanceBDE2Enterprise Risk Management in Commodity MarketsBDE2Strategic Management in Commodity BDE2	CHEM MPE2	MPE	3		
Trade, Structured & Supply Chain FinanceBDE2Enterprise Risk Management in Commodity MarketsBDE2Strategic Management in Commodity BDE2	CHEM MPE3	MPE	3		
Finance BDE 2 Enterprise Risk Management in Commodity Markets BDE 2 Strategic Management in Commodity BDE 2	CHEM MPE4	MPE	3		
Commodity Markets BDE 2 Strategic Management in Commodity BDE 2		BDE	2		
BDF 7		BDE	2		
	o o .	BDE	2		
					Total (AU)

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) AY2023 - 2024 Intake onwards FYP with Professional Attachment

				lumber of Acad		·)	
Programme	Year of	Major Re	quirement	Interdis	ciplinary	Broadening and	
	Study	Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)	Deepening Electives (BDE)	Total
	1	17/18*		6		12	35/36*
Chemistry and	2	21		11	3	8	43
Biological	3	18			7	9	34
Chemistry	4		22			6	28
	Total	56/57*	22	17	10	35	140/141*
BSc in Chemistry	and Biolog	rical Chemistry	with 2nd Maio	r in Business - I	nternational Tr	ading (ITG)	
Category		,				AU	Total AU
	Common C	Core (Universit	y-level)				
	CC0001 Inc	quiry and Com	munication in th	e Interdisciplina	ary World	2	
	CC0002 Na	avigating the D	igital World			2	
	CC0003 Et	hics & Civics in	a Multi-Cultural	World		2	
		ealthy Living &	-			3	17
Interdisciplinary			ciety, Economy			3	1/
Collaborative			ology for Humar	•		3	
Core (ICC)	ML0004 Ca	areer and Entre	epreneurial Deve	elopment for th	e Future	2	
	World					2	
	Foundatio	nal Core (Colle	ge-level)				
	HW0218 C	ommunication	Across the Scie	nces		2	
	PS0002 Int	roduction to D	ata Science and	Artificial Intelli	gence	3	10
	CM4082 P	rofessional Att	achment			5	
	CHEM Cor	-					
		e Foundations c	f Chomistry I			4	
	CM1001 CM1002	Foundations c	=			4	
		Calculus for th	•			4	
	CM1802	Mathematics		2			
	PH1011		.012* Physics A	2 3/4*			
	CM2021	· —	Bioinorganic Ch	omistry		-	
	CM2021 CM2011	Analytical Che	•	emistry		3	
	CM2011 CM2061	-	iological Chemis	trylaboratory	1	3 3	
	PS0001		o Computationa		Ŧ	3	
			ioorganic Chemi	•		3	56/57*
Major		•	•			3	50/57
Requirement			iophysical Chemical Chemical		า	3	
	CM2062	-	iological Chemis troscopy and Ap		۷		
			iophysical Chem			3	
					Λ	3	
	CM3062	-	iological Chemis ion Mechanisms		4	3	
		Organometall		and synthesis		3	
				trulaborator	2	3	
	CM3061	chemistry & B	iological Chemis	SU Y LADOFATORY	3	3	
	-		Electives (MPE)				
		Honours Proje	ct 1			10	22
	4 x MPEs					12	~~

Total			140/141
DE	Any 2 BDE	4	4
	12) BF3226 Strategic Management in Commodity Market	2	
	11) BF3214 Commodities Trading	2	
	10) BF3213 Enterprise Risk Management in Commodity Markets	2	
	9) BF3212 Trade, Structured & Supply Chain Finance	2	
Trading (ITG)	8) BF2302 International Tax & Trading Law	2	
International	7) BF2227 Commodity Markets	3	31
Business -	6) BF2226 Trade Incoterms & Ship Chartering	3	
2nd Major in	5) BE1402 Business Operations & Process	3	
	4) AD2102 Management Accounting	3	
	3) AD1102 Financial Accounting	3	
	2) AB1501 Marketing	3	
	Business - International Trading Compulsory Courses 1) AB1201 Financial Management	3	

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

[&] CM3011, CM3021. CM3031, CM3041 are offered in both semesters.

Suggested Study Plan for AY2023-2024 intake

FYP with Professional Attachment Option

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

Introduction to Academic Communication # HW0001

 * for students who have not cleared QET

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	CC	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

BF3213

BF3226

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	2
	BDE 2	BDE	2

Year 4 Sem	nester 1
Course	
	CHEM MPE1
	CHEM MPE2
	CHEM MPE3
	Trade, Structured & Supply Chain
BF3212	Finance

Commodity Markets

ester 1			Year
	Туре	AU	Cou
CHEM MPE1	MPE	3	CM4
CHEM MPE2	MPE	3	
CHEM MPE3	MPE	3	
Trade, Structured & Supply Chain Finance	BDE	2	
Enterprise Risk Management in	BDF	2	

BDE

BDE

15

2

2

15

Year 1 Sem	Year 1 Semester 2				
Course		Туре	AU		
CM1002	Foundations of Chemistry II	С	4		
CM1804	Mathematics for Chemistry	С	2		
PH1011/	Physics <u>or</u>	С	3		
PH1012*	Physics A (For students without 'A' Level Physics)	С	4		
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

16

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)

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 Spec</u> CM4082	t <mark>ial Sem</mark> Professional Attachment	FC	5
			19
Year 4 Sem	ester 2		
Course		Туре	AU
CM4080	Honours Project 1	MPE	10
	CHEM MPE4	MPE	3

This study plan is meant as a guide.

Market

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

Strategic Management in Commodity

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

21

19/20*

13

140/141*

BSc in Chemistry and Biological Chemistry with 2nd Major in Business - International Trading (CHITG) AY2023 - 2024 Intake onwards

with Professional Internship and FYP

	Number of Academic Units (AU)						
Dura	Year of	Major Re	quirement	Interdise	ciplinary	Broadening and	Total
Programme	Study	Core (C)	Major PE (MPE)	Common Core (CC)	Foundational Core (FC)	Deepening Electives (BDE)	
	1	17/18*		6		12	35/36*
Chemistry and	2	21		11	3	8	43
Biological	3	18	9		2	5	34
Chemistry	4		13		10	6	29
	Total	56/57*	22	17	15	31	141/142*
BSc in Chemistry	and Biolog	ical Chemistry	with 2nd Majo	r in Business - I	nternational Tr	ading (ITG)	
, Category						AU	Total AU
		ore (Universit					
			munication in th	e Interdisciplina	ary World	2	
		vigating the D	-			2	
			a Multi-Cultura	World		2	
		althy Living &	-			3	17
Interdisciplinary		=	ciety, Economy			3	1,
Collaborative			ology for Humar	-		3	
Core (ICC)		reer and Entre	epreneurial Deve	elopment for th	e Future	2	
	World					-	
	Foundatio	nal Core (Colle	ge-level)				
	HW0218 Communication Across the Sciences					2	
	PS0002 Int	50002 Introduction to Data Science and Artificial Intelligence				3	15
	CM4081 Pr	ofessional Inte	ernship				
	0					[[
	CHEM Core		f Chamistan I			4	
		Foundations c	-			4	
		Foundations of				4	
		Calculus for th				4	
		Mathematics		2			
		Physics or PH1012* Physics A				3/4*	
		-	Bioinorganic Ch	emistry		3	
						3 3	
Major		Organic and Bioorganic Chemistry				3	56/57*
Requirement		-	iophysical Chem	-		3	
		•	iological Chemis		2	3	
			ctroscopy and Ap	-		3	
	CM3041 ^{&}	Physical and B	iophysical Chem	nistry 2		3	
			iological Chemis		4	3	
	CM3031 ^{&}	Organic React	ion Mechanisms	and Synthesis		3	
	CM3021 ^{&}	Organometall	ic Chemistry			3	
	CM3061	Chemistry & E	iological Chemis	stry Laboratory	3	3	
	CHEM Maj	or Prescribed	Electives (MPE)				
	-	Honours Proje				10	22
	4 x MPEs	,				12	22

	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	
otal			141/142*

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

[&] CM3011, CM3021. CM3031, CM3041 are offered in both semesters.

Suggested Study Plan for AY2023-2024 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 Communication #

 * for students who have not cleared QET

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	CC	3
ML0004	Career and Entrepreneurial Development for the Future World	CC	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

Course		Туре	AU
CM4080	Honours Project 1	MPE	10
BF3212	Trade, Structured & Supply Chain Finance	BDE	2
BF3213	Enterprise Risk Management in Commodity Markets	BDE	2
	CHEM MPE 4	MPE	3
BF3226	Strategic Management in Commodity Market	BDE	2
			19

Year 1 Semester 2

Course		Туре	AU
CM1002	Foundations of Chemistry II	С	4
CM1804	Mathematics for Chemistry	С	2
PH1011/	Physics <u>or</u>	С	3
PH1012*	Physics A (For students without 'A' Level Physics)	С	4
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

Y 2.0 -

17

16

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)

21

141/142*

19/20*

Course	lester z	Туре	AU
CM3061	Chemistry & Biological Chemistry Laboratory 3	C	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 Sen Course	nester 2	Туре	AU
CM4081	Professional Internship	FC	10
			10

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