BSc in Chemistry and Biological Chemistry with 2nd Major in Environmental Science (CHES)

AY2025 - 2026 Intake onwards

FYP with Professional Internship

	Number of Academic Units (AU)							
Programme	Year of	Major Re	quirement	Interdiscip	linary Collabo	rative Core	Broadening and	
	Study Core (C)		Core (C) Major PE (MPE) Con		Professional Series (PS)	Care, Serve and Learn (CSL)	Deepening Electives (BDE)	Total
	1	18/19*		8			9	35/36*
Chemistry and	2	22		6	3	3	6	40
Biological	3	18	3		3		15	39
Chemistry	4		19		10			29
	Total	58/59*	22	14	16	3	30	143/144*

BSc in Chemistry and Biological Chemistry with 2nd Major in Environmental Science (CHES)

Category		AU	Total AU
	Common Core (University-level)		
	CC0001 Inquiry & Communication in an Interdisciplinary World	2	
	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	14
	CC0006 Sustainability: Society, Economy & Environment	3	
Interdisciplinary	CC0007 Science & Technology for Humanity	3	
Collaborative			
Core (ICC)	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	
	XXXXXX Care, Serve, Learn (University-level)	3	3
	CHEM Core		
	CM1001 Foundations of Chemistry I	4	
	CM1002 Foundations of Chemistry II	4	
	CB1102 Introduction to Chemistry, Chemical and Biomedical	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	58/59*
Major	CM2041 Physical and Biophysical Chemistry 1	3	30,33
Requirement	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	
	4 x MPEs	12	22

	Environmental Science Compulsory Courses		
	1) ES1007 Climate Change or ES5007 Climate and Climate Change	3	
	2) ES3003 Introduction to Geochemistry	3	
	3) ES3802 The Urban Environment: Issue, Assessment, and	3	
	4) ES5001 Natural Hazards and Society	3	
	5) ES5006 Environmental Sustainability	3	
	Choose 5 Courses from the following list		
2nd Major in	1) ES2003 [#] E2S2 Biosphere	4	
Environmental	2) ES3801 Biogeochemistry	3	
Science (CHES)	3) ES5002 Emergent Life	3	30#
Science (CHLS)	4) ES5003 Blue Planet: How the Oceans Work	3	
	5) ES5005 Environmental Earth Systems Science	3	
	6) ES3203 The Genome and Society	3	
	7) EM5101 Environmental Quality	3	
	8) EM5103 Water Resource Management	3	
	9) EM5104 Air Quality Management	3	
	10) EM5105 Energy Resources Management	3	
	11) EM 5107 Environmental Health and Safety Management	3	
	12) EM5109 Environmental Issues and Sustainability	3	
	Students are responsible to plan for their 2nd major courses		
Total			143/144*

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

 $^{^{\#}}$ Students taking ES2003 E2S2 Biophere (4AU) will clock 31AU under 2nd major courses.

 $^{^{\&}amp;}$ CM3011, CM3021. CM3031, CM3041 are offered in both semesters.

YP with Pi	rofessional Internship						
Year 1 Sem	nester 1			Year 1 Sen	nester 2		
Course		Туре	AU	Course		Type	AU
CM1001	Foundations of Chemistry I	С	4	CM1002	Foundations of Chemistry II	С	4
ИН1802	Calculus for the Sciences	С	4	CM1804	Mathematics for Chemistry	С	2
CB1102	Introduction to Chemistry, Chemical and Biomedical Engineering	С	1	PH1011/	Physics <u>or</u>	С	3
CC0001	Inquiry & Communication in an Interdisciplinary World	СС	2	PH1012*	Physics A (For students without 'A' Level Physics)	С	4
CC0015	Health & Wellbeing	CC	2	CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
ES5001	Natural Hazards and Society	BDE	3	ML0004	Career Design & Workplace	CC	2
				ES1007	Readiness in the V.U.C.A World Climate Change	BDE	3
""		. #		L31007	CHES Elective 1	BDE	3
HW0001	Introduction to Academic Communicati	ion"					
for studer	nts who have not cleared QET		16				19/20
rear 2 Sem	nester 1			Year 2 Sen	nester 2		
Course		Туре	AU	Course		Туре	AU
CM2011	Analytical and Bioanalytical Chemistry	С	3	CM2031	Organic and Bioorganic Chemistry	С	3
CM2021	Inorganic and Bioinorganic Chemistry	С	3	CM2041	Physical and Biophysical Chemistry 1	С	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	С	3	CM2062	Chemistry & Biological Chemistry Laboratory 2	С	3
PS0001	Introduction to Computational Thinking	С	3	CB2002	Introduction to Chemical and Biological Safety	С	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
ES3003	Introduction to Geochemistry	BDE	3	ES3802	The Urban Environment: Issue, Assessment and Management	BDE	3
			21				19
Year 3 Sem	nester 1			Year 3 Sen	nester 2		
Course	icate: 1	Туре	AU	Course	iester 2	Туре	AU
CM3xxx ^{&}	CHEM-Core	C	3	CM3xxx ^{&}	CHEM-Core	C	3
	CLIENA Cons	6	2		Chemistry & Biological Chemistry	6	2
CM3xxx [®]	CHEM-Core	С	3	CM3061	Laboratory 3	С	3
CM3xxx ^{&}	CHEM-Core	С	3	HW0218	Communication Across the Sciences	PS	2
CM3062	Chemistry & Biological Chemistry	С	3	ES5006	Environmental Sustainability	BDE	3
MLxxxx	Laboratory 4 Profession Preparation	PS	1		CHEM MPE 1	MPE	3
IVILXXXX	CHES Elective 2	BDE	3		CHES Elective 4	BDE	3
	CHES Elective 3	BDE	3		CHES Elective 5 [#]	BDE	3
			19				20
v 4 -			13	,,			20
Year 4 Sem	nester 1	Trees	A11	Year 4 Sen	nester 2	Trees.	
Course CM4081	Professional Internship	Type PS	10	Course CM4080	Honours Project 1	Type MPE	AU 10
CIVIACOT	i ioressional internsinp	ro	10	CIVI4UOU	CHEM MPE 2	MPE	3
					CHEM MPE 3	MPE	3
					CHEM MPE 4	MPE	3
			10		- 1000		19
					Total (AU)		143/14

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

 $^{^{\&}amp;}$ CM3xxx refers to CM3011, CM3021, CM3031, CM3041 - These courses are offered in both semesters

 $^{^{\#}}$ Students taking ES2003 E2S2 Biophere (4AU) will clock 31AU under 2nd major courses.

BSc in Chemistry and Biological Chemistry with 2nd Major in Environmental Science (CHES)

AY2025 - 2026 Intake onwards

FYP with Professional Attachment

	Number of Academic Units (AU)								
Programme	Year of	Major Re	quirement	Interdiscip	linary Collabo	rative Core	Broadening and		
	Study Core (C)		Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve and Learn (CSL)	Deepening Electives (BDE)	Total	
	1	18/19*		8			9	35/36*	
Chemistry and	2	22		6	3	3	6	40	
Biological	3	18			8		15	41	
Chemistry	4		22				1	23	
	Total	58/59*	22	14	11	3	31	139/140*	

BSc in Chemistry and Biological Chemistry with 2nd Major in Environmental Science (CHES)

Category			AU	Total AU
	Common Co	re (University-level)		
	CC0001 Inqu	iry & Communication in an Interdisciplinary World	2	
	Professional Series (College-level) HW0218 Communication Across the Sciences PS0002 Introduction to Data Science and Artificial Intelligence CM4082 Professional Attachment MLXXXX Profession Preparation XXXXXX Care, Serve, Learn (University-level) CHEM Core CM1001 Foundations of Chemistry I CM1002 Foundations of Chemistry II CB1102 Introduction to Chemistry, Chemical and Biomedical Engineering MH1802 Calculus for the Sciences CM1804 Mathematics for Chemistry PH1011 Physics or PH1012* Physics A CM2021 Inorganic and Bioinorganic Chemistry CM2011 Analytical Chemistry CM2011 Chemistry & Biological Chemistry Laboratory 1 PS0001 Introduction to Computational Thinking CM2031 Organic and Bioorganic Chemistry CM2041 Physical and Biophysical Chemistry 1	2		
		2		
		2	14	
	CC0006 Susta	ainability: Society, Economy & Environment	3	
nterdisciplinary	CC0007 Scier	nce & Technology for Humanity	3	
Collaborative				
Core (ICC)	Professional	Series (College-level)		
	HW0218 Cor	mmunication Across the Sciences	2	
	PS0002 Intro	oduction to Data Science and Artificial Intelligence	3	11
	CM4082 Prof	fessional Attachment	5	11
	MLXXXX Prof	fession Preparation	1	
	XXXXXX Care	e, Serve, Learn (University-level)	3	3
				1
		oundations of Chamistry I	4	
		•	4 4	
		•	-	
		,,	1 4	
			2	
		,	3/4*	
		· — ·	3	
			3	
		•	3	
			3	
			3	
Major		,	3	58/59*
Requirement			3	
·			1	
			3	
			_	
			3	
			3	
			3	
			3	
	CM3061 C	hemistry & Biological Chemistry Laboratory 3	3	
	CHEM Major	r Prescribed Electives (MPE)		
		onours Project 1	10	22
	4 x MPEs		12	22

	Environmental Science Compulsory Courses		
	1) ES1007 Climate Change or ES5007 Climate and Climate Change	3	
	2) ES3003 Introduction to Geochemistry	3	
	3) ES3802 The Urban Environment: Issue, Assessment, and Management	3	
	4) ES5001 Natural Hazards and Society	3	
	5) ES5006 Environmental Sustainability	3	
	Choose 5 Courses from the following list		
2nd Majarin	1) ES2003 [#] E2S2 Biosphere	4	
2nd Major in Environmental	2) ES3801 Biogeochemistry	3	
Science (CHES)	3) ES5002 Emergent Life	3	30#
science (CHLS)	4) ES5003 Blue Planet: How the Oceans Work	3	
	5) ES5005 Environmental Earth Systems Science	3	
	6) ES3203 The Genome and Society	3	
	7) EM5101 Environmental Quality	3	
	8) EM5103 Water Resource Management	3	
	9) EM5104 Air Quality Management	3	
	10) EM5105 Energy Resources Management	3	
	11) EM 5107 Environmental Health and Safety Management	3	
	12) EM5109 Environmental Issues and Sustainability	3	
	Students are responsible to plan for their 2nd major courses	,	•
BDE	Any 1 BDE	1	1
Гotal			139/140*

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

^{*} Students taking ES2003 E2S2 Biophere (4AU) will clock 31AU under 2nd major courses.

 $^{^{\&}amp;}$ CM3011, CM3021. CM3031, CM3041 are offered in both semesters.

	Study Plan for AY2025-2026 intake						
FYP with Pi	rofessional Attachment						
Year 1 Sem	nester 1	T	A11	Year 1 Sen	nester 2	T	
Course CM1001	Foundations of Chemistry I	Type C	AU 4	Course CM1002	Foundations of Chemistry II	Type C	AU 4
MH1802	Calculus for the Sciences	С	4	CM1804	Mathematics for Chemistry	С	2
	Introduction to Chesmitry, Chemical				·		
CB1102	and Biomedical Engineering	С	1	PH1011/	Physics or Physics A /For students without 'A'	С	3
CC0001	Inquiry & Communication in an Interdisciplinary World	CC	2	PH1012*	Physics A (For students without 'A' Level Physics)	С	4
CC0015	Health & Wellbeing	CC	2	CC0003	Ethics & Civics in a Multi-Cultural World	CC	2
ES5001	Natural Hazards and Society	BDE	3	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	CC	2
				ES1007	Climate Change	BDE	3
HW0001	Introduction to Academic Communicati	ion [#]			CHES Elective 1	BDE	3
			16				19/20*
for studer	nts who have not cleared QET						
Year 2 Sem	nester 1			Year 2 Sen	nester 2		
Course		Туре	AU	Course		Type	AU
CM2011	Analytical and Bioanalytical Chemistry	С	3	CM2031	Organic and Bioorganic Chemistry	С	3
CM2021	Inorganic and Bioinorganic Chemistry	С	3	CM2041	Physical and Biophysical Chemistry 1	С	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	С	3	CM2062	Chemistry & Biological Chemistry Laboratory 2	С	3
PS0001	Introduction to Computational Thinking	С	3	CB2002	Introduction to Chemical and Biological Safety	С	1
CC0006	Sustainability: Society, Economy & Environment	CC	3	PS0002	Introduction to Data Science and Artificial Intelligence	PS	3
XXXXX	Care, Serve, Learn	CSL	3	CC0007	Science & Technology for Humanity	СС	3
ES3003	Introduction to Geochemistry	BDE	3	ES3802	The Urban Environment: Issue, Assessment and Management	BDE	3
					Assessment and Management		
			21				19
Year 3 Sem	nester 1			Year 3 Sen	nester 2		
Course	icster 1	Туре	AU	Course	icster 2	Type	AU
CM3xxx ^{&}	CHEM-Core	С	3	CM3xxx ^{&}	CHEM-Core	C	3
					Chemistry & Biological Chemistry		
CM3xxx ^{&}	CHEM-Core	С	3	CM3061	Laboratory 3	С	3
CM3xxx ^{&}	CHEM-Core	С	3	ES5006	Environmental Sustainability	BDE	3
CM3062	Chemistry & Biological Chemistry Laboratory 4	С	3		CHES Elective 4	BDE	3
MLxxxx	Profession Preparation	PS	1		CHES Elective 5 [#]	BDE	3
IVILAAAA	CHES Elective 2	BDE	3	HW0218	Communication Across the Sciences	PS	2
	CHES Elective 3	BDE	3	1100210	communication Across the Sciences	13	2
				Year 3 Spe	cial Sam		
				CM4082	Professional Attachment	PS	5
			19				22
Year 4 Sem	nester 1			Year 4 Sen	nester 2		
Course		Туре	AU	Course		Type	AU
	CHEM MPE1	MPE	3	CM4080	Honours Project 1	MPE	10
	CHEM MPE2	MPE	3		BDE	BDE	1
	CHEM MPE3	MPE	3				
	CHEM MPE4	MPE	3				
			12				11

This study plan is meant as a guide.

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

 $^{^{\&}amp;}$ CM3xxx refers to CM3011, CM3021, CM3031, CM3041 - These courses are offered in both semesters

[#] Students taking ES2003 E2S2 Biophere (4AU) will clock 31AU under 2nd major courses.

BSc in Chemistry and Biological Chemistry with 2nd Major in Environmental Science (CHES)

AY2025 - 2026 Intake onwards

with Professional Internship

	Number of Academic Units (AU)							
Programme	Year of	Major Re	quirement	Interdiscip	linary Collabo	ative Core	Broadening and	•
110614111110	Study		Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve and Learn (CSL)	Deepening Electives (BDE)	Total
	1	18/19*		8			9	35/36*
Chemistry and	2	22		6	3	3	6	40
Biological	3	18			3		17	38
Chemistry	4		12		10		4	26
	Total	58/59*	12	14	16	3	36	139/140*

BSc in Chemistry and Biological Chemistry with 2nd Major in Environmental Science (CHES)

ategory		AU	Total AU
	Common Core (University-level)		
	CC0001 Inquiry & Communication in an Interdisciplinary World	2	
	Common Core (University-level) CC0001 Inquiry & Communication in an Interdisciplinary World CC0003 Ethics & Civics in a Multi-Cultural World ML0004 Career Design & Workplace Readiness in the V.U.C.A World CC0015 Health & Wellbeing CC0006 Sustainability: Society, Economy & Environment CC0007 Science & Technology for Humanity Professional Series (College-level) HW0218 Communication Across the Sciences PS0002 Introduction to Data Science and Artificial Intelligence CM4081 Professional Internship MLXXXX Profession Preparation XXXXXX Care, Serve, Learn (University-level) CHEM Core CM1001 Foundations of Chemistry I CM1002 Foundations of Chemistry II CB1102 Introduction to Chemistry, Chemical and Biomedical Engineering MH1802 Calculus for the Sciences CM1804 Mathematics for Chemistry PH1011 Physics or PH1012* Physics A Inorganic and Bioinorganic Chemistry CM2061 Chemistry & Biological Chemistry Laboratory 1 Introduction to Computational Thinking CM2031 Organic and Bioophysical Chemistry 1 CM2062 Chemistry & Biological Chemistry Laboratory 2 Introduction to Chemical and Biological Safety CM3011 Chemistry & Biological Chemistry Laboratory 2 CM3012* Chemistry & Biological Chemistry Laboratory 4 CM3031 Physical and Biophysical Chemistry Laboratory 4 CM3031 Organic Reaction Mechanisms and Synthesis	2	
	Common Core (University-level) CC0001 Inquiry & Communication in an Interdisciplinary World CC0003 Ethics & Civics in a Multi-Cultural World ML0004 Career Design & Workplace Readiness in the V.U.C.A World CC0015 Health & Wellbeing CC0006 Sustainability: Society, Economy & Environment CC0007 Science & Technology for Humanity Professional Series (College-level) HW0218 Communication Across the Sciences PS0002 Introduction to Data Science and Artificial Intelligence CM4081 Professional Internship MLXXXX Profession Preparation XXXXXX Care, Serve, Learn (University-level) CHEM Core CM1001 Foundations of Chemistry I CM1002 Foundations of Chemistry II CB1102 Introduction to Chemistry, Chemical and Biomedical Engineering MH1802 Calculus for the Sciences CM1804 Mathematics for Chemistry PH1011 Physics or PH1012* Physics A CM2021 Inorganic and Bioinorganic Chemistry CM2061 Chemistry & Biological Chemistry Laboratory 1 PS0001 Introduction to Computational Thinking Or CM2031 Organic and Bioorganic Chemistry CM2041 Physical and Biophysical Chemistry CM2041 Physical and Biophysical Chemistry 1 CM2062 Chemistry & Biological Chemistry Laboratory 2 CM2001 Introduction to Chemical and Biological Safety CM3011* Chemical Spectroscopy and Applications		
	CC0015 Health & Wellbeing	2	14
	CC0003 Ethics & Civics in a Multi-Cultural World ML0004 Career Design & Workplace Readiness in the V.U.C.A World CC0015 Health & Wellbeing CC0006 Sustainability: Society, Economy & Environment CC0007 Science & Technology for Humanity Orative O(ICC) Professional Series (College-level) HW0218 Communication Across the Sciences PS0002 Introduction to Data Science and Artificial Intelligence CM4081 Professional Internship MLXXXX Profession Preparation XXXXXX Care, Serve, Learn (University-level) CHEM Core		
nterdisciplinary	CC0007 Science & Technology for Humanity	3	
Collaborative			
Core (ICC)			
	HW0218 Communication Across the Sciences	2	
	PS0002 Introduction to Data Science and Artificial Intelligence	3	16
	·	10	
	MLXXXX Profession Preparation	1	
	XXXXXX Care, Serve, Learn (University-level)	3	3
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	,	2	
		3/4*	
		3	
	· · · · · · · · · · · · · · · · · · ·	3	
		3	
	,	3	
Major	,	3	58/59*
Requirement	, , , , , , , , , , , , , , , , , , , ,	3	
		3	
		1	
		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	1

	Environmental Science Compulsory Courses		
	1) ES1007 Climate Change or ES5007 Climate and Climate Change	3	
	2) ES3003 Introduction to Geochemistry	3	
	3) ES3802 The Urban Environment: Issue, Assessment, and Management	3	
	4) ES5001 Natural Hazards and Society	3	
	5) ES5006 Environmental Sustainability	3	
	Choose 5 Courses from the following list		
2	1) ES2003 [#] E2S2 Biosphere	4	
2nd Major in Environmental	2) ES3801 Biogeochemistry	3	
	3) ES5002 Emergent Life	3	30#
Science (CHES)	4) ES5003 Blue Planet: How the Oceans Work	3	
	5) ES5005 Environmental Earth Systems Science	3	
	6) ES3203 The Genome and Society	3	
	7) EM5101 Environmental Quality	3	
	8) EM5103 Water Resource Management	3	
	9) EM5104 Air Quality Management	3	
	10) EM5105 Energy Resources Management	3	
	11) EM 5107 Environmental Health and Safety Management	3	
	12) EM5109 Environmental Issues and Sustainability	3	
	Students are responsible to plan for their 2nd major courses		
BDE	Any 3 BDE	6	6
otal			139/140*

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

^{*} Students taking ES2003 E2S2 Biophere (4AU) will clock 31AU under 2nd major courses.

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

Suggested	mistry and Biological Chemistry with 2nd Study Plan for AY2025-2026 intake	u major .		ientai seienee (e			
with Profes	sional Internship						
Year 1 Sem Course	nester 1	Туре	AU	Year 1 Sen Course	nester 2	Туре	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	С	1	PH1011/	Physics <u>or</u>	С	3
CC0001	Inquiry & Communication in an Interdisciplinary World	СС	2	PH1012*	Physics A (For students without 'A' Level Physics)	С	4
CC0015	Health & Wellbeing	CC	2	CC0003	Ethics & Civics in a Multi-Cultural World	СС	2
ES5001	Natural Hazards and Society	BDE	3	ML0004	Career Design & Workplace Readiness in the V.U.C.A World	СС	2
				ES1007	Climate Change	BDE	3
HW0001	Introduction to Academic Communicat	ion [#]			CHES Elective 1	BDE	3
4 .			16				19/20*
for studen	its who have not cleared QET						
Year 2 Sem	nester 1			Year 2 Sen	nester 2		
Course		Туре	AU	Course		Type	AU
CM2011	Analytical and Bioanalytical Chemistry	С	3	CM2031	Organic and Bioorganic Chemistry	С	3
CM2021	Inorganic and Bioinorganic Chemistry	С	3	CM2041	Physical and Biophysical Chemistry 1	С	3
CM2061	Chemistry & Biological Chemistry Laboratory 1	С	3	CM2062	Chemistry & Biological Chemistry Laboratory 2	С	3
PS0001	Introduction to Computational Thinking	С	3	CB2002	Introduction to Chemical and Biological Safety	С	1
CC0006	Sustainability: Society, Economy &	CC	3	PS0002	Introduction to Data Science and	PS	3
	Environment	CSL	2	CC0007	Artificial Intelligence	СС	3
ES3003	Care, Serve, Learn Introduction to Geochemistry	BDE	3	ES3802	Science & Technology for Humanity The Urban Environment: Issue, Assessment and Management	BDE	3
					Assessment and Management		- 10
			21				19
Year 3 Sem	nester 1	T		Year 3 Sen	nester 2	-	
Course &	CHEM Core	Туре	AU 3	Course	CUEM Coro	Туре	AU 3
CM3xxx ^{&} CM3xxx ^{&}	CHEM-Core CHEM-Core	C C	3	CM3xxx ^{&} CM3061	CHEM-Core Chemistry & Biological Chemistry	c c	3
C. 42 &	CUEM Core	С	2	ES5006	Laboratory 3	DDE	2
CM3xxx ^{&}	CHEM-Core Chemistry & Biological Chemistry	C	3	E35006	Environmental Sustainability	BDE	3
CM3062	Laboratory 4	С	3		CHES Elective 4	BDE	3
MLxxxx	Profession Preparation	PS	1		CHES Elective 5 [#]	BDE	3
	CHES Elective 2	BDE	3	HW0218	Communication Across the Sciences	PS	2
	CHES Elective 3	BDE	3		BDE 1	BDE	2
			19				19
Voor 4.0	anahar 1			V 4.0	tov 2		
Year 4 Sem Course	iestel T	Typo	AU	Year 4 Sen Course	iestel 2	Type	AU
CM4081	Professional Internship	Type PS	10	Course	CHEM MPE1	Type MPE	3 3
C.11 7001	Sressional internsing	. 5	10		CHEM MPE2	MPE	3
					CHEM MPE3	MPE	3
					CHEM MPE4	MPE	3
					BDE 2	BDE	2
					BDE 3	BDE	2
			10				16

This study plan is meant as a guide.
*Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

 $^{^{\&}amp;}$ CM3xxx refers to CM3011, CM3021, CM3031, CM3041 - These courses are offered in both semesters

 $^{{\}it \#Students\ taking\ ES2003\ E2S2\ Biophere\ (4AU)\ will\ clock\ 31AU\ under\ 2nd\ major\ courses.}$