Joint Bachelor's Degree Programme between CityU and The University of Manchester

Tentative Study Plan for CityU students of Chemistry (BSCSIU4/CHEM/2022; Cohort 2022)
The matching programme at UoM: Bachelor of Science in Chemistry

		City U - Chemistry		UoM - BSc Chemistry		
		Minimum: 120 Credit units Maximum: 144 Credit units		Minimum: 360 Points		
		Gateway Education: 30				
		College requirement: 6				
		Major: 68		Major: 360		
		- Core: 38		- Complusory: 280		
		- Elective: 30		- Course options: 80		
		Free elective: 18	1		1	
		Courses	Credits	Courses	Credits	
		[GE-English] GE1401 University English	3			
		[GE-Col Specified] MA1300 Enhanced Calculus and Linear Algebra I	3			
	Sem A	[GE-Col Specified] CS1102 Introduction to Computer Studies	3			
	(15	Or CS1302 Introduction to Computer Programming				
	credits,	[GE] Gateway Education 1 - Area 1	3			
Year 1	CityU)	[CSCI-Col Requirement] CSCI1001 Employability for Scientists	0			
(30 credits			3			
earned in		[CSCI-Col Requirement] College Requirement Course#				
CityU)		[GE-Chinese] GE1501 Chinese Civilization – History & Philosophy	3			
	Sem B	[GE-Col Specified] MA1301 Enhanced Calculus and Linear Algebra II	3		ļ	
	(15	[GE-English] GE2401 English for Science	3		1	
	credits,	[GE] Gateway Education 2 - Area 2	3		ļ	
	CityU)	[CSCI-Col Requirement] CSCI1002 Career Lab for Scientists	0			
		[CSCI-Col Requirement] College Requirement Course#	3			
		[Major-Core] CHEM2006 Principles of Inorganic Chemistry	4	[Major-Mandatory] CHEM10101 Introductory Chemistry	30	
				[Major-Mandatory] CHEM10312 Coordination Chemistry	10	
		[Major-Core] CHEM2007 Principles of Organic Chemistry	4	[Major-Mandatory] CHEM10412 Reactivity and Mechanism	10	
				[Major-Mandatory] CHEM10600 Practical Chemistry	20	
		[Major-Core] MA2172 Applied Statistics for Sciences and Engineering	3			
		Major-Elective 1	3	[Major-Optional] Select 10 credits of the following courses (all courses carry	10	
	Sem A			10 credits): BIOL10551 Fundamentals of Biochemistry		
	(17			BMAN10011 Fundamentals of Management		
	credits, CityU)			BMAN10552 Fundamentals of Finance GEOG10401 Environmental Processes and Change: The Global System		
	0.1,07			GEOG10422 Dynamic Earth		
				HSTM10272 Bodies in History: An Introduction to the History of Medicine		
				MATH19641 Mathematics 1Q1		
				MATH19682 Mathematics 1E2		
				MCEL10002 Entrepreneurial Skills		
Year 2 (34 credits				PHAR10102 Properties of Medicines		
earned in		[GE] Gateway Education 3 - Area 3	3			
CityU)		[Major-Core] CHEM2004 Principles of Analytical Chemistry	4	[Major-Mandatory] CHEM10520 Chemists' Toolkit	20	
		[Major-Core] CHEM2008 Principles of Physical Chemistry	4	[Major-Mandatory] CHEM10212 Energy and Change	10	
		[Major-Core] CHEM2073 Entrepreneurship Programme In Chemistry I	3			
		Major-Elective 2	3	[Major-Optional] Select 10 credits of the following courses (all courses carry	10	
				10 credits):		
				BIOL10551 Fundamentals of Biochemistry		
	Sem B			BMAN10011 Fundamentals of Management		
	(17			BMAN10552 Fundamentals of Finance GEOG10401 Environmental Processes and Change: The Global System		
	credits,			GEOG10401 Environmental Processes and Change. The Global System		
	CityU)			HSTM10272 Bodies in History: An Introduction to the History of Medicine		
	1			MATH19641 Mathematics 1Q1		
				MATH19682 Mathematics 1E2		
				MCEL10002 Entrepreneurial Skills		
				PHAR10102 Properties of Medicines		
			3		ļ	
		[GE] Gateway Education 4 - Area1/2/3				
		Total Credits earned in CityU	<u>64</u>	Total Credits transferred from CityU	<u>120</u>	
			<u>64</u> 4	[Major-Mandatory] CHEM20411 Organic Synthesis	120 10	
		Total Credits earned in CityU		[Major-Mandatory] CHEM20411 Organic Synthesis [Major-Mandatory] CHEM20412 Structure and Reactivity of Organic		
		Total Credits earned in CityU		[Major-Mandatory] CHEM20411 Organic Synthesis [Major-Mandatory] CHEM20412 Structure and Reactivity of Organic Molecules	10	
		Total Credits earned in CityU		[Major-Mandatory] CHEM20411 Organic Synthesis [Major-Mandatory] CHEM20412 Structure and Reactivity of Organic	10	

	Sem A (17 credits, UoM)			[Major-Optional] Select 10 credits of the following courses (all courses carry 10 credits): CHEMZ0711 Contemporary Themes in Chemistry CHEMZ0712 Environmental and Green Chemistry CHEM20712 Environmental and Green Chemistry CHEM20722 Biomolecular Structure and Function UCIL20021 Leadership in Action Unit UCIL20022 Leadership in Action Online Unit UCIL20031 Leadership in Action Online Unit UCIL20132 Leadership in Action Online Unit UCIL20132 Understanding Mental Health UCIL20112 Understanding Mental Health UCIL20122 Al: Robot Overlord, Replacement, or Colleague? UCIL20132 Trust and Security in a Digital World: From Fake News to Cyber Criminals UCIL20132 From Antarctica to Outer Space: Surviving and Thriving in Extremes UCIL20214 Are We Alone? The Search for Extraterrestrial Life UCIL20282 The Information Age UCIL20282 The Information Age UCIL20311 Creating a Sustainable World: 21st Century Challenges and the Sustainable Development Goals UCIL20882 Current Topics in Biology UCIL21202 Bioethics: Contemporary Issues in Science and Biomedicine UCIL21301 Communicating with Confidence UCIL21302 Communicating with Confidence UCIL22001 Essential Enterprise UCIL22002 Essential Enterprise UCIL2002 Digital Society: Your Place in a Networked World UCIL29002 Understanding The Universe: The Grand Challenges of Today	10
Year 3		Major-Elective 3	3		
(34 credits transferred		Major-Elective 4 Free elective 1	3		
from UoM)	Sem B (17 credits, UoM)	[Major-Core] CHEM3014 Inorganic Chemistry	4	[Major-Mandatory] CHEM20311 Group Theory: Fundamentals and Applications	10
		[Major-Core] CHEM3016 Physical Chemistry	4	[Major-Mandatory] CHEM20312 Inorganic Chemistry [Major-Mandatory] CHEM20212 Core Physical Chemistry	10 10
		Major-Elective 5 Major-Elective 6	3 3 3	[Major-Optional] Select 10 credits of the following courses (all courses carry 10 credits): CHEM20711 Contemporary Themes in Chemistry CHEM20712 Environmental and Green Chemistry CHEM20712 Biomolecular Structure and Function UCIL20021 Leadership in Action Unit UCIL20022 Leadership in Action Unit UCIL20031 Leadership in Action Online Unit UCIL20032 Leadership in Action Online Unit UCIL20132 Understanding Mental Health UCIL20112 Understanding Mental Health UCIL20112 Trust and Security in a Digital World: From Fake News to Cyber Criminals UCIL20132 Trust and Security in a Digital World: From Fake News to Cyber Criminals UCIL20142 From Antarctica to Outer Space: Surviving and Thriving in Extremes UCIL20211 Are We Alone? The Search for Extraterrestrial Life UCIL20221 The Information Age UCIL20282 The Information Age UCIL20311 Creating a Sustainable World: 21st Century Challenges and the Sustainable Development Goals UCIL20882 Current Topics in Biology UCIL21202 Bioethics: Contemporary Issues in Science and Biomedicine UCIL21301 Communicating with Confidence UCIL21302 Communicating with Confidence UCIL22001 Essential Enterprise UCIL22002 Essential Enterprise UCIL22002 Digital Society: Your Place in a Networked World UCIL29002 Understanding The Universe: The Grand Challenges of Today	10
		Free elective 2	3	Induity Manufactural CUITAGOGGA Comp. Champing 2	- 10
Year 4 (24 credits transferred from UoM)		Major-Elective 8 Major-Elective 8	3	[Major-Mandatory] CHEM30211 Core Chemistry 3 [Major-Mandatory] CHEM30311 Core Chemistry 2 [Major-Mandatory] CHEM30620 Advanced Practical Training [Major-Optional] Select 40 credits of the following courses (all courses carry 10 credits unless specified otherwise): CHEM30111 Personalised Learning Unit 1 CHEM30112 Personalised Learning Unit 2.10 CHEM30112 Personalised Learning Unit 2.20 (20 credits) CHEM30432 Bioorganic and Medicinal Chemistry CHEM30712 Biosynthesis and Bioenergetics CHEM30722 Biomolecular Structure and Function 2 EART30252 Environmental Radioactivity and Nuclear Power HSTM31212 The Nuclear Age HSTM32011 From Sherlock Holmes to CSI: AHistory of Forensic Medicine HSTM33201 Climate Change & Society MCEL30011 Advanced Technology Enterprise MCEL30012 Advanced Technology Enterprise	10 10 40 40
		Free elective 3	3	MCEL30022 Interdisciplinary Sustainable Development	
		Free elective 4	3		

	Major-Elective 9	3	[Major-Mandatory] CHEM30312 Core Chemistry 4	10
Sem B	Major-Elective 10	3	[Major-Mandatory] CHEM30411 Core Chemistry 1	10
(12 credits,	Free elective 5	3		
UoM)	Free elective 6	3		
,				
	Total Credits transferred from UoM^	<u>58</u>	Total Credits earned in UoM	<u>240</u>
	Credit units earned towards CityU degree	122	Credit units earned towards UoM degree	360

[^] Maximum 60 credits can be transferred to CityU.
For details of the college requirements, please refer to ARRO's website at:
http://www.cityu.edu.hk/catalogue/ug/current/catalogue/catalogue_UC.htm?page=B/col_sch_CSCI.htm