The Hong Kong University of Science and Technology School of Science

An Example on Student's Pathway (as of 25 July 2023)

<< Declaration of major

							<< <i>D</i> e	claratio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ajui					
School:		School of Science						:	Student's	Pathway	s (i.e. Stu	dy Patter	n)		
Department:		Department of Ocean Science		-											
Program:		BSc in Ocean Science and Technology				Background: HKDSE 4 Core + 2 Elec									
			Profile: Student to graduate with option												
Course Offering Dept (course code	Course Code	Course Title / Courses List		Major F		Ye		Ye		Y		Y			
orefix)			Credits	Major Pre-requisite	Year 1 Fall	Year 1 Spring	Year 2 Fal	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Sub-total	Remarks	
	quirements					-		_	-						
COMP COMP COMP	1021 1022P 2011	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science Introduction to Computing with Java	3-4 3 3				3						3	COMP 1021 is an OST M required course.	
COMP LANG	2011 2010	Programming with C++ English for Science I	4				<u>i</u>	3					3		
DCES	1001	The Earth as a Blue Planet	3	@	3			0					3	OCES 1001 is NOT a Sc Foundation course and CANNOT be used to fulfi	
DCES	1010	Principles and Applications of Environmental Science	3	-			<u> </u>							School Requirements.	
				@		3	<u> </u>						3		
	1008	Introductory Chemistry	3	_			<u>!</u>						0		
CHEM	1020	General Chemistry I General Chemistry II	3	-	3	(0)	į						3		
CHEM	1050	Laboratory for General Chemistry I	1			(3)	i						0		
CHEM	1055	Laboratory for General Chemistry II	1	1		1	i	1	1				0		
LIFS	1030**	Environmental Science	3	1			;	1					0	1	
LIFS	1901	General Biology I	3			3	î		L				3		
LIFS	1902	General Biology II	3				3						3		
LIFS	1903	Laboratory for General Biology I	1			1							1		
LIFS	1904	Laboratory for General Biology II	1				l	<u> </u>					0		
_IFS _IFS	1930 2210	Nature of Life Sciences Biochemistry I	3	-		<u> </u>	<u>!</u>						0		
MATH	1012	Calculus IA	4	-			!	+					0		
MATH	1012	Calculus IB	3	+	3	<u> </u>	i	+	<u> </u>				0		
MATH	1014	Calculus II	3			3	i —						3		
MATH	1020	Accelerated Calculus	4	1		Ē	I						0		
MATH	1023	Honors Calculus I	3			L							0		
MATH	1024	Honors Calculus II	3										0		
MATH	2023	Multivariable Calculus	4				<u>.</u>						0	*	
MATH MATH	2121 2131	Linear Algebra	4	-			<u> </u>	1					0	ł	
PHYS	1101	Honors in Linear and Abstract Algebra I Introductory Physics	4	-			<u> </u>						0	<u> </u>	
PHYS	1111	General Physics I	3										0	+	
PHYS	1112	General Physics I with Calculus	3	1	3		<u> </u>						3	<u> </u>	
PHYS	1113	Laboratory for General Physics I	1	1			İ					1	0		
PHYS	1114	General Physics II	3				i						0		
PHYS	1115	Laboratory for General Physics II	1										0		
PHYS	1312	Honors General Physics I	3										0		
PHYS	1314	Honors General Physics II	3					_					0		
Major Req		credits for School / Major Pre-requisite Requirements	5		-		-						31		
	ed Courses and	d Electives													
OCES	2001	Survey of Ocean Science	3				3		[3]				3		
OCES	2002	Marine Chemistry	3					3					3		
OCES OCES	2003 2100	Descriptive Physical Oceanography	3					3					3		
OCES	3001	Conservation Field Trips Coastal Environmental Monitoring	3				1			0		101	1		
OCES	3003	Field Methods in Marine Studies	3**			-	!	+	3	3	[3]	[3]	3	ł	
OCES	3130	Marine Biology	3	\leftarrow		-	!		3		[3]		3	+	
OCES	3160	Ecology	3				!	1	3		[3]		3	<u> </u>	
OCES	4001	Ocean and Climate Change	3			1	<u>i</u>	1		3			3		
DCES/SCIE		Note: OCES 4964 OR (OCES 4974 AND OCES 4984) OR (SOIE 3500 AND SOIE 4500) (Students following IRE Track can only use (SOIE 3500 AND SOIE 4500) to fulfill the requirement.)	3-6				ļ								
DCES	4964	Ocean Science and Technology Capstone Project Research	3				!	1			3		3		
OCES OCES	4974 4984	Ocean Science and Technology Research Project I Ocean Science and Technology Research Project II	3				İ	1							
SCIE	3500 4500	IRE Research Project I IRE Research Project II	3				i	1							
							i —								
CHEM CHEM	1020 1030	General Chemistry I General Chemistry II	3		(3)	-	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	0	<u> </u>	
LIFS	1000	Note: Students with level 3 or above in HKDSE 1x Biology are	3 0-3		┣───	3	;		<u> </u>	<u> </u>	<u> </u>	<u> </u>	3		
	1001	exempted from taking LIFS 1901				(3)	1	1					0		
_IFS _IFS	1901 1902	General Biology I General Biology II	3	-			(2)	+					0	<u> </u>	
MATH		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	4-7	-			(3)	+					U	+	
матн	1012	(MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA	4				!	1							
MATH	1013	Calculus IB	3			10.	!	1					_		
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4		(3)	(3)	!	1					0		
MATH MATH PHYS	1020 1023 1024	Honors Calculus I Honors Calculus II Note: PHYS 1111 OR PHYS 1112 OR PHYS 1312	33												
PHYS	1111	General Physics I	3	1	(2)		i	1					0		
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3 3		(3)		i	1					U		
COMP	1021	Introduction to Computer Science	3	1		1	(3)	1	1				0		
ANG		Note: LANG 3025 OR LANG 3027 (Students following IRE Track	3	1		1		1	1	1	1	1		1	
ANG	3025	should take LANG 3027 to fulfill the requirement.) Science Communication in English (Environmental Science)	3				:	1	3				3		
LANG	3027	Science Communication in English for Research Students Ocean Science and Technology Electives (Courses from the specified	3		⊢		<u>:</u>								
		Ocean Science and rectinitional peculity plectives (Courses from the specified elective its. Students taking the Marine Ecology Option must use OCES 4203 and OCES 4301 to count towards this elective requirement, while those taking the Oceanography Option must use MATH 2350 and OCES 3301. Courses taken to fulfill the Track/Option requirements may not be counted towards this elective requirement.)	12						3	3	3	3	12		

	Requ	ired credits for Major Required Courses and I	Electives 62-71										46	
Option Red	quirements													
Marine Ecolo	gy Option													
OCES		Marine Ecology Electives (2 courses from the specified electiv	ve list) 6				l				3	3	6	
		Required credits for Marine Ecolog	y Option 6				1						6	
Universi	ity CORE													
CORE	C3 - C10	U CORE - Others	24		1	2	6	3		3	3	6	24	
CORE	C1 & C2	U CORE - English Language	6		3	3	İ						6	
					I						30			
	Term load (excl. free credits)													
					16	18	16	12	15	12	12	12		

Notes:

107 (w/o option) | 113 (w/ option)#

@ Course that students need to complete before enrolling into respective major/programs.

() indicates the reuse of the same course to fulfill more than one requirement.

[] denotes the course is also offered in other terms as indicated and students may take the course in one of these terms subject to advice by the program office.

To graduate, students should complete at least 120 credits in approved courses. They may need to take courses additional to the required and elective courses as specified above to meet this minimum credit requirement.

-	**Remarks on course(s):							
	- LIFS 1030:	The course was last offered in 2020-21 and was deleted subsequently.						
	- OCES 3003:	The credit value will be changed to 4 starting from Spring, 2024-25.						

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

2023-24 OST (4Y) (2022-23 intake)