## The Hong Kong University of Science and Technology **School of Engineering**

An Example on Student's Pathway (as of Fall 2020-21)

<< Declaration of major

						<< De	ciarati	on of n	najor				
School:		School of Engineering							Pathway	s (i.e. Stu	udy Patte	ern)	
Department: Program:		Computer Engineering Program Office BEng in Computer Engineering						Pathway					4
					Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS)□ □ Profile: Normative. Students to graduate in BEng CPEG with Research Option								
course □ Offering□ Dept□ course code refix)	Course Code	Course Title / Courses List	Credits	Year 1 Fa	Year 1 Spring	Year 2 Fal	Year 2 Spring	Year 3 F	Year 3 Spring	Year 4 Fa	Year 4 Spring	Sub-tota	
			lits	all	ing	a	ing	Fall	ing	all	ing	tal	Remarks
	uirements	2011000											
COMP	Fundamental C	Note: COMP 1021 OR COMP 1022P OR COMP 1022Q	3	Ι	<u> </u>	<u> </u>	1	<u> </u>			1	1	<del>т — — — — — — — — — — — — — — — — — — —</del>
OMP	1021	Introduction to Computer Science	3	3								3	
COMP COMP	1022P□ 1022Q**	Introduction to Computing with Java Introduction to Computing with Excel VBA	3 3			<u> </u>							
ENGG ANG	1010 2030	Academic Orientation Technical Communication I	0	0	0	<u> </u>						0	
ANG MATH D	2030	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND	4-7	_		i –	3					3	
]		(MATH 1014 OR MATH 1024)] OR [MATH 1020]				l							
/ATH□ /ATH□	1012□ 1013□	Calculus IA Calculus IB	4	3	3	Ì						6	
MATH⊡ MATH⊡	1014□ 1020□	Calculus II  Accelerated Calculus	3 4	3	3							0	
/ATH □	1023 🗆	Honors Calculus I	3										
<u>IATH</u> IATH	1024 2011	Honors Calculus II Introduction to Multivariable Calculus	3	-		<u>-</u>		3				3	
IATH	2111	Matrix Algebra and Applications	3			3						3	
PHYS□ PHYS□	□ 1112□	Note: PHYS 1112 OR PHYS 1312□ General Physics I with Calculus□	3 3	3		Ĭ		İ –	İ –			3	
PHYS	1112□ 1312	Honors General Physics I	3	3		<u> </u>						3	<b></b>
PHYS⊡ PHYS⊡	□ 1114 □	Note: PHYS 1114 OR PHYS 1314 □ General Physics II □	3 3		3	Ī		1	1			3	
PHYS SENG	1314	Honors General Physics II Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3 3-4		3							3	
						<u>i</u>							
		quired credits for Engineering Fundamental Courses	25-29			1						27	
	ed Courses an		6	-		1	1	1	1		1		
PEG□		Note: [CPEG 1971 AND (CPEG 4901 OR CPEG 4902 OR□ CPEG 4911 OR CPEG 4912)] OR [CPEG 4910] (Students□ taking the Research Option must take either CPEG 4902 or□ CPEG 4912)□	6										
PEG	1971□ 4901□	Industrial Experience  Computer Engineering Final Year Project in COMP	0 6							3	3	6	
	4902□ 4910□	Computer Engineering Final Year Thesis in COMP□ Co-op Program□	6 6										
PEG	4911 🗆	Computer Engineering Final Year Project in ELEC	6			!							
PEG PEG	4912 2930	Computer Engineering Final Year Thesis in ELEC Academic and Professional Development I	6 0			0	0					0	
PEG	3930	Academic and Professional Development II	0	-		† Ť		0	0			0	
	□ 2011 □	Note: (COMP 2011 AND COMP 2012) OR COMP 2012H□ Programming with C++□	5-8 4			Ì							
	2012	Object-Oriented Programming and Data Structures	4			4		4				8	
COMP COMP/ELEC	2012H	Honors Object-Oriented Programming and Data Structures Note: COMP 2611 OR ELEC 2300	5 4			i —							
	2611 □ 2300	Computer Organization	4			i	4					4	
OMP/ELEC		Note: COMP 2711 OR COMP 2711H OR ELEC 2600	4										
OMP□ OMP□	2711 □ 2711H□	Discrete Mathematical Tools for Computer Science Honors Discrete Mathematical Tools for Computer Science	4 4					4				4	
LEC OMP	2600 3511	Probability and Random Processes in Engineering Operating Systems	4									0	
		Note: ELEC 1100 OR ELEC 1200	4	-		<u> </u>			3			3	
	1100□ 1200	Introduction to Electro-Robot Design□ A System View of Communications: from Signals to Packets	4			4						4	
		Note: ELEC 2100 OR ELEC 2400	4			!		1	1	1	1	<u> </u>	1
LEC LEC	2100□ 2400	Signals and Systems  Electronic Circuits	4 4			Ī	4					4	
LEC	2200	Digital Circuits and Systems	4			i –	4					4	
LEC	3300	Introduction to Embedded Systems	4			i			4			4	
NGG ANG 🗆	2010	Engineering Seminar Series Note: LANG 4030 OR LANG 4031	0			0	0	0	0		<b> </b>	0	<u> </u>
ANG	u 4030□	Technical Communication II for CSE & CPEG	3					1	1	3		3	
ANG COMP/ELEC	4031	Technical Communication II for ECE & CPEG CPEG Restricted Elective (1 course from the specified elective list)	3			<u> </u>				-		-	Students should refer to th
COMP/ELEC		Area Courses (At least 4 courses from the specified elective list , of which at least 2 courses should be taken from one single area and at least 2	15			 				3		3	department about offering
	Demi	courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.)							4	4	7	15	ļ
Intion Poort		red credits for Major Required Courses and Electives	59-62			<u>I</u>		1	1	I		62	<u> </u>
Option Requi Research Optior													
OMP/ELEC		CPEG Electives (1 PG-level course as approved by advisor)	3							3		3	Students can take the cou in Year 2 or Year 3.
OMP/ELEC/URO		Research Electives [Students should take either (ELEC 5900 AND UROP 1100) or a 3-credit COMP 5000-level course to fulfill this requirement.]	2-3			[1]	[1]	1	1	[3]		2	Students can take the courses in Year 2 or Year
		Required credits for Research Option	5-6			1	L	t	t		L	5	1
Jniversity	CORE												
ORE	C3 - C12	U CORE - Others	30	3	3	6	3	6	6		3	30	
ORE	C1 & C2	U CORE - English Language	6	3	3	i		ļ				6	
		Sub-total for University CORE	36	┦───		<u>.</u>		(a) fr= -	a dit-1			36	1
				15	15	Ter 17	m load (e) 18	cl. free cr	edits) 18	16	13	-	
				10	15					10	13		
Notes:	eouroe ie elee effe	red in other terms as indicated and students may take the course in o				<< De		on of n	najor			J	

[] 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):						
- COMP 1022Q:	The course was last offered in 2019-20 and was deleted subsequently.					

>> 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/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.

## 2020-21 CPEG (4Y) (2017-18 intake)