The Hong Kong University of Science and Technology

CEGBM 2018-19 Intake

Interdisciplinary Programs Office

An Example on Student's Pathway (As of Summer 2018-19)

<< Declaration of major

School:	**School of Engineering and School of Business Management**	Student's Pathways (i.e. Study Pattern)
Department:		Pathway 1
Program:	**Dual Degree Program (BEng in Chemical Engineering and BBA in General Business Management)**	Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS) Profile: Normative.Students to graduate in (BEng & BBA) CEGBM Note w.r.t. CENG pathway for students who decide to choose CENG early on and have CENG 1000 and CHEM 1010/1020 in Year 1

Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total	Remarks
BEng in Chemical Engineering															
Major Requirements															
Engineering Fundamental Courses															
COMP		Note: COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011	3-4												
COMP	1021	Introduction to Computer Science	3												
COMP	1022P	Introduction to Computing with Java	3		3									3	This course will also be used to substitute ISOM 2010 (Except COMP2011)
COMP	1022Q	Introduction to Computing with Excel VBA	3												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM		Note: CHEM1010 OR CHEM1020	3												
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	3												
LANG	2030	Technical Communication I	3					3						3	
MATH		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7												
MATH	1012	Calculus IA	4												
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3	3	3									6	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
MATH	2011	Introduction to Multivariable Calculus	3			3								3	
MATH	2350	Applied Linear Algebra and Differential Equations	3				3							3	
PHYS		Note: PHYS 1112 OR PHYS 1312	3												
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	Honors General Physics I	3												
SENG		Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3-4		(3)									0	
		Required credits for Engineering Fundamental Courses	24-30											24	
Major Required Courses and Electives															
CENG/BIEN		Note: CENG1000 OR BIEN1010	3												
CENG	1000	Introduction to Chemical and Biological Engineering	3		3									3	
BIEN	1010	Introduction to Biomedical Engineering	3												
CENG	1010	Academic and Professional Development I	0			0								0	
CENG	1500	A First Course on Materials Science and Applications	3	3										3	
CENG	1980	Industrial Training	0			0	0	0		0				0	
CENG	2110	Process Principles	3			3								3	
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3	
CENG	2220	Process Fluid Mechanics	3				3							3	
CENG	3120	Process Design and Integration	3						3					3	
CENG	3210	Separation Processes	3					3						3	
CENG	3220	Heat and Mass Transfer	3						3					3	
CENG	3230	Chemical and Biological Reaction Engineering	3					3						3	
CENG	3950	Chemical and Environment Engineering Laboratory	4								4			4	
CENG	4120	Process Dynamics and Control	3							3				3	
CENG	4130	Plant Design and Economics	3							3				3	
CENG		Note: CENG4920 OR CENG4930 OR CENG4940	6												
CENG	4920	Chemical Engineering Capstone Design	6												
CENG	4930	Chemical Engineering Thesis Research	6									3	3	6	
CENG	4940	Chemical Engineering Industrial Project	6												
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	2111	Fundamentals of Organic Chemistry	3				3							3	
CHEM		Note: CHEM 2155 OR CHEM 2355	1												
CHEM	2155	Fundamental Organic Chemistry Laboratory	1					1						1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CHEM	2311	Analytical Chemistry	3								3			3	
LANG	4035**	Technical Communication II for Chemical and Biological Engineering	3									3		3	
BIEN/LIFS		Note: LIFS1901 OR LIFS1902 OR LIFS2040 OR LIFS2210	3												
BIEN	2610	Chemical Biology for Engineers	3												
LIFS	1901	General Biology I	3												
LIFS	1902	General Biology II	3				3							3	
LIFS	2040	Cell Biology	3												
LIFS	2210	Biochemistry I	3												
		Required credits for Major Requirements Courses and Electives	57											57	
BBA in General Business Management															
School Requirements															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON		Note: ECON 2103 OR ECON 2113	3												
ECON	2103	Principles of Microeconomics	3			3								3	
ECON	2113	Microeconomics	3												
ECON		Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc ECOF must take ECON 3123)	3												
ECON	2123	Macroeconomics	3					3						3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3						3					3	
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q
ISOM	2500	Business Statistics	3					3						3	
ISOM	2700	Operations Management	3						3					3	
MARK	2120	Marketing Management	3				3							3	
MGMT	2010	Business Ethics and the Individual	2			2								2	
MGMT	2110	Organizational Behavior	3					3						3	
MGMT	2130	Business Ethics and Social Responsibility	2							2				2	
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students
LABU	2040	Business Case Analyses	3							3				3	
LABU	2060	Effective Communication in Business	3						3					3	
MATH		Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023	3-4												
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4												DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1013	Calculus IB	3	(3)										0	
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
		Required credits for School Requirements	43-44											37	
Major Requirements															
Major Required Courses and Electives															
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29		3	3				6		7	10	29	
		Required credits for Major Required Courses and Electives	29											29	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
		Required credits for Additional Requirements	0											0	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3	3					12	6	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	36											36	
				Term load (excl. free credits)											
				19	18	20	18	19	18	17	19	19	16		
				183##											

<< Declaration of major

Notes:

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

* Courses offered in winter term

^ Courses offered in summer term

--- denotes the course/requirement is either waived or substituted

To graduate, students should complete all requirements as specified for DDP.

**Remarks on course(s):

>> 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.