The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway (as of Summer 2015-16)

CEGBM 2015-16 Intake
via SENG

<< 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								
COMP	1022Q	Introduction to Computing with Excel VBA	3																				
COMP	2011**	Introduction to Object-oriented Programming	4																				
ENGG	1010	Academic Orientation	0	0	0									0									
CHEM		Note: CHEM 1010 OR CHEM 1020	2-3																				
CHEM	1010	General Chemistry IA	3	3										3									
CHEM	1020	General Chemistry IB	2																				
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]	4-6																				
MATH	1012	Calculus IA	4																				
MATH	1013	Calculus IB	3	3	3									6									
MATH	1014	Calculus II	3																				
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		Note: MATH2111 OR MATH2350	3																				
MATH	2111	Matrix Algebra and Applications	3				3							3									
MATH	2350	Applied Linear Algebra and Differential Equations	3																				
PHYS		Note: PHYS 1111 OR PHYS1112 OR PHYS 1312	3																				
PHYS	1111	General Physics I	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									3									
		Required credits for Engineering Fundamental Courses	24-29											27									
Major Required Courses and Electives																							
CENG	1000	Introduction to Chemical and Biomolecular Engineering	3		3									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 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	Reaction and Reactor Engineering	3					3						3									
CENG	3910	Chemical Engineering Laboratory I	3							3				3									
CENG	3920	Chemical Engineering Laboratory II	3								3			3									
CENG	4120	Process Dynamics and Control	3							3				3									
CENG	4911**	Chemical Engineering Project	7									4	3	7									
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									
LIFS		Note: LIFS 1901 OR LIFS 1902 OR LIFS 2040 OR LIFS 2210	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	54											54									
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	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								
SBMT	2010	Business Ethics and the Individual	2							2				2									
LABU	2020**	Effective Communication in Business	2						2					2									
LABU		Note: LABU 2050 OR (LABU 2051 AND LABU 2052) (Students who wish to pursue BBA GBUS must take LABU 2050 while others must take LABU 2051 and LABU 2052)	3-4																				
LABU	2050	Honors Business Case Analyses	3			2	2							4									
LABU	2051**	Business Case Analyses I	2																				
LABU	2052**	Business Case Analyses II	2																				
MATH		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4																				
MATH	1003	Calculus and Linear Algebra	3																				
MATH	1012	Calculus IA	4	-3										0	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																				
MATH	1020	Accelerated Calculus	4																				
MATH	1023	Honors Calculus I	3																				
		Required credits for School Requirements	42-44											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				6		10	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									
		Required credits for Additional Requirements	0											0									
University CORE																							
CORE	C3 - C12	U CORE - Others	30	3	6					3	12	3	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	20	18	18	19	18	17	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):

- MATH 2350: This is a new course subject to replace MATH 2111. (effective from Fall 2015/16 and applicable to students admitted in and after 2015/16)
- CENG 4911: The credit value will be changed to 7. (effective from Fall 2015/16 and applicable to students admitted in and after 2012/13)
- LABU 2051,2052,2020: LABU2051, 2052, 2020 will be deleted soon, replacements are LABU2040, 2060. (Detailed timeline to be announced)
- LABU 2040: This is a new course subject to approval, to replace LABU2051 + LABU2052, (effective from 2016/17 and applicable to students admitted in and after 2016/17)
- LABU 2060: This is a new course subject to approval, to replace LABU2020, (effective from 2016/17 and applicable to students admitted in and after 2016/17)

>> 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.