The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway (As ofSummer 2015-16)

CBGBM 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 and Biomolecular 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) CBGBM Note: w.r.t. CBME pathway for students who decide to choose CBME 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 and Biomolecular 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	3										3	
PHYS	1112	General Physics I with Calculus	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	1600	Biotechnology and Its Business Opportunities	3		3									3	
CENG	1980	Industrial Training	0			0^	0^	0^			0^			0	
CENG	2110	Process Principles and Engineering Economics	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	3926	Biomolecular Engineering Laboratory	3								3			3	
CENG	4120	Process Dynamics and Control	3							3				3	
CENG	4620	Bioproducts and Processing	3							3				3	
CENG	4640	Biomolecular Engineering	3								3			3	
CENG	4913**	Chemical and Biomolecular 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												
CENG		CBME Depth Elective (1 course from the specified elective list)	3										3	3	
		Required credits for Major Requirements Courses and Electives	63											63	
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												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	1012	Calculus IA	4	-3										0	
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		3		5	3	8	7	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	6	3					3	6	6	6	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	20	19	19	18	20	19		
									192##						

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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 4913:	The course title will be changed to "Chemical and Biomolecular Engineering Project". (effective from Fall 2015/16)
- CENG 4913:	The credit value will be changed to 7. (effective from Fall 2015/16)
- 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.