

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)												Remarks
Department:		Dual Degree Program (BEng in Chemical Engineering and BBA in General Business Management)		Pathway 1												
Program:				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		
<b>BEng in Chemical Engineering</b>																
<b>Major Requirements</b>																
<b>Engineering Fundamental Courses</b>																
COMP	1021	Note: COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011	3-4													
COMP	1022P	Introduction to Computer Science	3		3									3	This course will also be used to substitute ISOM 2010 (Except COMP2011)	
COMP	1022Q	Introduction to Computing with Java	3													
COMP	2011	Introduction to Computing with Excel VBA Programming with C++	4													
ENGG	1010	Academic Orientation	0	0	0									0		
CHEM	1010	Note: CHEM1010 OR CHEM1020	3													
CHEM	1020	General Chemistry IA	3	3										3		
CHEM	1020	General Chemistry IB	3													
LANG	2030	Technical Communication I	3													
MATH	1012	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-6													
MATH	1013	Calculus IA	4													
MATH	1014	Calculus IB	3													
MATH	1020	Accelerated Calculus	4	3	3									6		
MATH	1023	Honors Calculus I	3													
MATH	1024	Honors Calculus II	3													
MATH	2011	Introduction to Multivariable Calculus	3											3		
MATH/CENG	2350	Note: MATH2350 OR CENG2310	3													
MATH	2350	Applied Linear Algebra and Differential Equations	3											3		
CENG	2310	Mathematical Modeling for Chemical and Biological Engineering	3						3							
PHYS	1112	Note: PHYS 1112 OR PHYS 1312	3													
PHYS	1312	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		
<b>Required credits for Engineering Fundamental Courses</b>			24-29											24		
<b>Major Required Courses and Electives</b>																
CENG/BIEN	1000	Note: CENG1000 OR BIEN1010	3		3									3		
CENG	1010	Introduction to Chemical and Biological Engineering	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			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	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	4920	Note: CENG4920 OR CENG4930 OR CENG4940	6													
CENG	4930	Chemical Engineering Capstone Design	6									3	3	6		
CENG	4940	Chemical Engineering Thesis Research	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	2155**	Note: CHEM 2155 OR CHEM 2355	1						1					1		
CHEM	2355**	Fundamental Organic Chemistry Laboratory**	1													
CHEM	2311	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	2610	Note: LIFS2610 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													
<b>Required credits for Major Requirements Courses and Electives</b>			54**											54		
<b>BBA in General Business Management</b>																
<b>School Requirements</b>																
ACCT	2010	Principles of Accounting I	3				3							3		
ACCT	2200	Principles of Accounting II	3						3					3		
ECON	2103	Note: ECON 2103 OR ECON 2113	3													
ECON	2113	Principles of Microeconomics	3				3							3		
ECON	2113	Microeconomics	3													
ECON	2123	Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc ECOF must take ECON 3123)	3						3					3		
ECON	3123	Macroeconomics	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	2060**	Effective Communication in Business**	3							3				3		
LABU	2040**	Business Case Analyses**	3								3			3		
MATH	1003	Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023	3-4													
MATH	1012	Calculus and Linear Algebra	3													
MATH	1013	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
<b>Required credits for School Requirements</b>			43-44											37		
<b>Major Requirements</b>																
<b>Major Required Courses and Electives</b>																
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	
<b>Required credits for Major Required Courses and Electives</b>			29											29		
<b>Additional Requirements</b>																
<b>Requirements for Dual Degree Program</b>																
<b>Required Courses</b>																
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Required credits for Additional Requirements</b>			0											0		
<b>University CORE</b>																
CORE	C3 - C12	U CORE - Others	30	3	3	3					3	12	3	3	30	
CORE	C1 & C2	U CORE - English Language	6	3	3										6	
<b>Sub-total for University CORE</b>			36											36		
Term load (excl. free credits)																
19 18 17 18 19 18 17 19 19 16																
180##																

<< 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):	
- CHEM 2155:	This is a new course subject to approval. (effective from 2016/17 and applicable to students admitted in or after 2015/16)
- CHEM 2355:	This is a new course subject to approval. (effective from 2016/17 and applicable to students admitted in or after 2015/16)
- LABU 2040:	This is a new course subject to approval. (effective from 2016/17 and applicable to students admitted in or after 2016/17)
- LABU 2060:	This is a new course subject to approval. (effective from 2016/17 and applicable to students admitted in or after 2016/17)
- LANG 4035:	This is a new course to take effect in Fall, 2019-20
- MGMT2010:	Previous Course Code: SBMT 2010

>> 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.