

<< Declaration of BEng major << Declaration of BBA major

School:			School of Engineering and School of Business Management			Student's Pathway											
Program:			Dual Degree Program (BEng in Bioengineering and BBA in Finance)														
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		
<b>BEng in Bioengineering</b>																	
<b>Major Requirements</b>																	
Engineering Fundamental Courses																	
COMP	1021	Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]	3-5														
COMP	1022P	Introduction to Computer Science	3														
COMP	1029P	Introduction to Computing with Java	3		3									3	Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020		
COMP	2011	Python Programming Bridging Course	1														
COMP	2012H	Programming with C++	4														
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5														
ENGG	1010	Academic Orientation	0	0	0									0			
CHEM	1010	Note: CHEM1010 OR CHEM 1020															
CHEM	1020	General Chemistry IA	3	3										3			
CHEM	1020	General Chemistry IB	3														
CHEM	1050	Laboratory for General Chemistry I	1	1										1			
LANG	2030	Technical Communication I	3											0	Waived for DDP students		
LIFS	1901	General Biology I	3	3										3	Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901.		
MATH	1012	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR (MATH 1020)	4-7														
MATH	1013	Calculus IA	4														
MATH	1014	Calculus IB	3	3	3									6			
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
MATH	1024	Honors Calculus II	3														
PHYS	1112	Note: PHYS 1112 OR PHYS 1312															
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>			23-29											19			
<b>Major Required Courses and Electives</b>																	
BIEN	1010	Note: BIEN 1010 OR CENG 1000															
BIEN	1010	Introduction to Biomedical Engineering	3		3									3			
CENG	1000	Introduction to Chemical and Biological Engineering	3														
BIEN	2310	Modeling for Chemical and Biological Engineering	3			3								3			
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3					3			
BIEN	2610	Chemical Biology for Engineers	3			3								3			
BIEN	2990	Academic and Professional Development I	1			1								1			
BIEN	3310	Note: BIEN 3310 OR BIEN 3320															
BIEN	3320	Data Science for Neural Engineering	3				3							3			
BIEN	3320	Data Science for Biology and Medicine	3														
BIEN	3410	Introduction to Bioinstrumentation and Biomaging	3							3				3			
BIEN	3910	Bioengineering Laboratory	4							4				4			
BIEN	4920	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940															
BIEN	4930	Bioengineering Capstone Design	6								3		3	6			
BIEN	4940	Bioengineering Thesis Research	6														
BIEN	4940	Bioengineering Industrial Project	6														
BIEN	4990	Academic and Professional Development II	1										1	1			
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3			
CENG	2220	Transport Phenomena I	3									3		3			
CENG	3230	Chemical and Biological Reaction Engineering	3							3				3			
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0			
LIFS	3150	Note: LIFS 3150 OR MATH 2411 OR BIEN 3300	3-4														
LIFS	3150	Biostatistics	3														
MATH	2411	Applied Statistics	4			3								3			
BIEN	3300	Data Science for Molecular Engineering	3														
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3			
SSCI/SENG		Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level)	15								6	3	6	15			
<b>Required credits for Major Required Courses and Electives</b>			60-61											60			
<b>BBA in Finance</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															
ECON	2113	Principles of Microeconomics	3			3								3			
ECON	2113	Microeconomics	3														
ECON	2123	Note: ECON 2123 OR ECON 3123									3			3			
ECON	3123	Macroeconomics	3														
ECON	3123	Macroeconomic Theory I	3														
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite		
ISOM	2010	Introduction to Information Systems	3											0	Substituted by COMP 1021/1022P/2011/2012H		
ISOM	2020	Coding for Business	1											0	Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P		
ISOM	2500	Business Statistics	3											0	Substituted by LIFS 3150/ MATH 2411		
ISOM	2600	Introduction to Business Analytics	1											0	Substituted by BIEN3320		
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											0	Waived for DDP students		
LABU	2060	Effective Communication in Business	3											3			
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4														
MATH	1012	Calculus and Linear Algebra	3														
MATH	1013	Calculus IA	4														
MATH	1013	Calculus IB	3		(3)									0	To satisfy the requirements of both BEng and BBA degrees, DDP students should NOT take MATH 1003.		
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
<b>Required credits for School Requirements</b>			43-44											31			
<b>Major Requirements</b>																	
Major Required Courses and Electives																	
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1			
FINA	3103	Intermediate Investments	3					3						3			
FINA	3203	Derivative Securities	3						3					3			
FINA	3303	Intermediate Corporate Finance	3							3				3			
FINA	3810	Bloomberg Market Concepts Certification	0					0						0			
ACCT	3010	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030	3-6														
ACCT	3020	Financial Accounting I	3								3			3			
ACCT	3020	Financial Accounting II	3														
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3														
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3								3			3	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.		
ISOM	3400	Business Applications Programming	3														
ISOM	3400	Python Programming for Business Analytics	3														
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9			
<b>Required credits for Major Required Courses and Electives</b>			25-28											25			
<b>Additional Requirements</b>																	
<b>Requirements for Dual Degree Program</b>																	
Required Courses																	
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0			
TEMG	3950	T&M Case Analysis and Product Innovation	3		3									3			
TEMG	4950	T&M Corporate Consulting Project	3-5					4						4			
<b>Required credits for Additional Requirements</b>			7											7			
<b>University CORE</b>																	
CORE	C3 - C12	U CORE - Others	30				6	9				9	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)																	
				16	18	18	18	19	18	19	18	18	16				
<b>178##</b>																	
Notes: ( ) indicates the reuse of the same course to fulfill more than one requirement. --- denotes the course/requirement is either waived or substituted. ## To graduate, students should complete all requirements specified for DDP. **Remarks on course(s):																	