

<< 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

**BEng in Bioengineering**

**Major Requirements**

**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	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM	1010	Note: CHEM1010 OR CHEM 1020	3												
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											3	
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												
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												
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>			23-29											22	

**Major Required Courses and Electives**

BIEN	1010	Note: BIEN 1010 OR CENG 1000	3		3										
CENG	1000	Introduction to Biomedical Engineering	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	3320	Data Science for Biology and Medicine	3				3							3	This course will also be used to substitute ISOM 2600.
BIEN	3410	Introduction to Bioinstrumentation and Bioimaging	3							3				3	
BIEN	3910	Bioengineering Laboratory	4								4			4	
BIEN	4920	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940	6												
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	
LIFS	3150	Note: LIFS 3150 OR MATH 2411	3-4			0	0	0	0						
MATH	2411	Biostatistics	3			3								3	This course will also be used to substitute ISOM 2500.
MATH	2411	Applied Statistics	4												
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	

**BBA in Finance**

**School Requirements**

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			3									3
ECON	2113	Principles of Microeconomics	3												
ECON	2123	Note: ECON 2123 OR 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												3
ISOM	2020	Coding for Business	1												0
ISOM	2500	Business Statistics	3												0
ISOM	2600	Introduction to Business Analytics	1												0
ISOM	2700	Operations Management	3							3					3
MARK	2120	Marketing Management	3					3							3
MGMT	2010	Business Ethics and the Individual	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
LABU	2040	Business Case Analyses	3							3					3
LABU	2060	Effective Communication in Business	3								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												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
<b>Required credits for School Requirements</b>			43-44											34	To satisfy the requirements of both BEng and BBA degrees, DDP students should NOT take MATH 1003.

**Major Requirements**

**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												
ACCT	3030	Financial Accounting II	3												
ACCT	3030	Intermediate Financial Accounting for Non-Accounting Majors	3												
ISOM	3230	Note: ISOM 3230 OR ISOM 3400	3												
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	If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230.
<b>Required credits for Major Required Courses and Electives</b>			25-28											25	

**Additional Requirements**

**Requirements for Dual Degree Program**

<b>Required Courses</b>															
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMG	3950	Case-based Problem Solving	3		3										3
<b>Required credits for Additional Requirements</b>			3												3

**University CORE**

CORE	C3 - C12	U CORE - Others	30	3			3	6		3	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)										
19	18	18	18	18	18	18	19	18	18	16
180##										

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):

>> 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.