(For students admitted in 2012-13 under the 3-year degree)

Curriculum for BEng in Chemical and Bioproduct Engineering and BBA in General Business Management

General Requirements

Students are required to complete the following general requirements for graduation in addition to program specific requirements:

Required Courses in English Communication
Common Core Requirements
Required Course in Physical Education

For details please refer to the section "General Requirements" on this website.

Program Specific Requirements

Credit(s)

Required courses

		CENG 1500	A First Course on Materials Science and Applications	3
	or	CENG 1600	Biotechnology and Its Business Opportunities	3
	or	CENG 1700	Introduction to Environmental Engineering	3
(1)		CENG 1980	Industrial Training	0
		CENG 2010	Chemical Process Principles	3
		CENG 2030	Products and Processes	3
		CENG 2210	Chemical Engineering Thermodynamics	3
		CENG 2220	Process Fluid Mechanics	3
		CENG 3120	Process Design and Integration	3
		CENG 3210	Separation Processes	3
		CENG 3220	Heat and Mass Transfer	3
		CENG 3230	Reaction and Reactor Engineering	3
		CENG 3910	Chemical Engineering Laboratory I	3
		CENG 3926	Bioproduct Engineering Laboratory**	3
		CENG 4120	Process Dynamics and Control	3
		CENG 4130	Plant Design and Economics	3
		CENG 4620	Bioproducts and Processing	3
		CENG 4640	Biomolecular Engineering	3
		CENG 4913	Chemical and Bioproduct Engineering Project**	6**
		COMP 1022Q	Introduction to Computing with Excel VBA	3
		IELM 2200	Engineering Management	3
		IELM 4110	Engineers in Society	1
		ACCT 2010	Principles of Accounting I	3
(2)		ECON 2103	Principles of Microeconomics	3
(2)	or	ECON 2113	Microeconomics	3
(2)	or	ECON 2913	Honors Microeconomics	3

	FINA 2303	Financial Management	3
	ISOM 2500	Business Statistics	3
	ISOM 2700	Operations Management	3
	MARK 2120	Marketing Management	3
	MGMT 2110	Organizational Behavior	3
	MGMT 2120	Business, Society and the Individual	1
	CHEM 2411	Physical Chemistry: Fundamentals and Applications	3
(3)	LANG 1112	Chinese Business Communication I	3
	LIFS 2030	Nature of Biochemistry and Biotechnology	3
	LIFS 2040	Cell Biology	3
(4)	MATH 1018	Concise Calculus	4
	MATH 2011	Introduction to Multivariable Calculus	3
	MATH 2111	Matrix Algebra and Applications	3
	MATH 2351	Introduction to Differential Equations	3
	MATH 3311	Introduction to Numerical Methods	2

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(5)	CENG	Chemcial Engineering Elective	1	3
(6)	SB&M	Business and Management Elective	9	29

Other Requirements

	CENG 1010	Academic and Professional Development I	0
or	CENG 2000	Introduction to Chemical and Biomolecular Engineering	1
	CENG 4020	Academic and Professional Development II	0
	TEMG 1010	Technology and Management Professional Activities	0

***Remarks on course(s):*

-	CENG 3926:	The course title will be changed to "Biomolecular Engineering Laboratory" starting from Fall, 2014-15.
-	CENG 4913:	The course title will be changed to "Chemical and Biomolecular Engineering Project" starting from Fall, 2015-16.
-	CENG 4913:	The credit value will be changed to 7 starting from Fall, 2015-16.

Notes:

(1) Students are required to complete and pass a prescribed training program within the normal length of study. Details of the program, its requirements and schedule will be announced on the website of the Industrial Training Center (http://www.ust.hk/itc) or website of the department in the first year Fall term. Training normally takes place in the Winter and Summer terms starting from the first year of study. For recording the overall training results, students are normally registered for the course in their last term of study.

(2) Students entering with AL Economics take ECON 2113; however, those with grade B or above in HKAL Economics will take ECON 2913. All other students without AL Economics background, including those entering with AL Business and Economics, take ECON 2103.

(3) Students cannot replace this course by LANG 1110 (prior to 2012-13)/1111 (prior to 2011-12) for graduation purposes. Students recruited from Mainland China will replace this course by a free elective. For international students who are assessed as having inadequate Chinese background to take LANG 1112, they will replace this course by LANG 1120.

(4) Students who have grade E or better in AL Pure Mathematics or in AL Applied Mathematics are not required to take MATH 1018.

(5) Chemical Engineering electives are to be chosen from CENG courses at 4000-level or above. ENGG 4950 can be used to count toward the CENG elective requirement.

(6) ISOM 2010 cannot be used to count toward the SB&M elective requirement. Of these 29 credits, at least 9 credits must be at 4000-level or above; at least 9 credits must be at 3000-level or above; and at least 12 credits (3 courses) of business elective courses must be offered by HKUST School of Business and Management.

A minimum of 147 credits is required for the BEng program in Chemical and Bioproduct Engineering and BBA program in General Business Management. For students who are required to take MATH 1018, the minimum total required is 151 credits.