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

## Curriculum for BEng in Chemical and Environmental Engineering

## 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 <br> Required Course in Physical Education

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

## Program Specific Requirements

## Required courses

(2) CENG 1500
(2) or CENG 1600

CENG 1700
CENG 1990
CENG 2010
CENG 2030
CENG 2210
CENG 2220
CENG 3120
CENG 3210
CENG 3220
CENG 3230 Reaction and Reactor Engineering
CENG $3910 \quad$ Chemical Engineering Laboratory I
CENG 3927 Environmental Engineering Laboratory
CENG 4120 Process Dynamics and Control
CENG $4130 \quad$ Plant Design and Economics
CENG 4710 Environmental Control
CENG 4912 Chemical and Environmental Engineering Project

Engineering Management

Introduction to Computing with Excel VBA
COMP $1022 Q$

IELM 22003

Engineers in Society
ELM 4110
CHEM 2112 Fundamentals of Organic Chemistry ..... 3
3
(3) CHEM 2411 Physical Chemistry: Fundamentals and Applications
4
MATH 1018 Concise Calculus
3
MATH 2011 Introduction to Multivariable Calculus
3
MATH 2111 Matrix Algebra and Applications
3
MATH 2351 Introduction to Differential Equations ..... 2

## Elective courses

| Elective types |  | Minimum <br> no. of courses | Minimum <br> total credits |
| :---: | :--- | :---: | :---: |
| CENG | Chemical Engineering Elective | 2 | 6 |
| SB\&M | Business and Management Elective | 1 | 3 |

## Other Requirements

CENG 1010 Academic and Professional Development I 0
or CENG 2000 Introduction to Chemical and Biomolecular 1 Engineering

CENG $4020 \quad$ Academic and Professional Development II 0

## 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 admitted through the School-based Admission Scheme are not required to take CENG 1500 or CENG 1600, and CENG 4710. They should take two additional Chemical Engineering (CENG) Elective courses to make up the 6 credits shortfall. For detailed requirements on CENG Electives, please refer to note (5).
(3) School-based admittees may replace this course with LIFS 2030.
(4) School-based admittees or students who have grade D 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.

A minimum of 100 credits is required for the BEng program in Chemical and Environmental Engineering. Students must take additional course(s) and/or elective(s) of higher-than-required credit value to meet the minimum total of 100 credits. For students who are required to take MATH 1018, the minimum total required is 103 credits.

For students admitted through the School-based Admission Scheme - Engineering A, a minimum of 101 credits is required for their program completion.

