*(For students admitted in 2010-11 under the 3-year degree)*

# Curriculum for BEng in Industrial Engineering and Engineering Management 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

| | | | | |
|---|---|---|---|---|
| (1) | | IELM 1990 | Industrial Training | 0 |
| | | IELM 2100 | Computing in Industrial Applications | 3 |
| | | IELM 2150 | Product Design and Communication | 3 |
| | | IELM 2200 | Engineering Management | 3 |
| | | IELM 2510 | Engineering Probability and Statistics | 4 |
| | | IELM 3010 | Operations Research I | 3 |
| | | IELM 3130 | Ergonomics and Safety Management | 3 |
| | | IELM 3150 | Manufacturing Processes | 3 |
| | | IELM 3250 | Operations Research II | 3 |
| | | IELM 3270 | Quality Engineering | 3 |
| | | IELM 3300 | Industrial Data Systems | 3 |
| | | IELM 4100 | Integrated Production Systems | 3 |
| | | IELM 4110 | Engineers in Society | 1 |
| | | IELM 4130 | System Simulation | 3 |
| | | IELM 4990 | Industrial Engineering Design Project | 6 |
| | | CENG 1500 | A First Course on Materials Science and Applications | 3 |
| | | CIVL 2150 | Introduction to Statics and Dynamics | 3 |
| | | COMP 1004 | Programming Fundamentals and Methodology | 4 |
| | | ELEC 2410 | Basic Electronics | 4 |
| | | 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 |
| | | MARK 2120 | Marketing Management | 3 |
| | | MGMT 2110 | Organizational Behavior | 3 |

| | | | |
|---|---|---|---|
| | MGMT 2120 | Business, Society and the Individual | 1 |
| (3) | LANG 1112 | Chinese Business Communication I | 3 |
| (4) | MATH 1018 | Concise Calculus | 4 |
| | MATH 2011 | Introduction to Multivariable Calculus | 3 |
| | MATH 2111 | Matrix Algebra and Applications | 3 |

Elective courses

| | Elective types | | Minimum no. of courses | Minimum total credits |
|---|---|---|---|---|
| (5) | ENGG | Engineering Elective | 5 | 15 |
| (6) | SB&M | Business and Management Elective | 9 | 29 |

Other Requirements

| | | |
|---|---|---|
| IELM 1010 | Academic and Professional Development I | 0 |
| IELM 1020 | Academic and Professional Development II | 0 |
| TEMG 1010 | Technology and Management Professional Activities | 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 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) ENGG 4950 can be used to count toward the ENGG elective requirement.

(6) ISOM 2010, ISOM 2500 and ISOM 2700 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 taken in 2011-12 and after, or at 300-level or above taken prior to 2011-12; at least 9 credits must be at 3000-level or above taken in 2011-12 and after, or at 200-level or above taken prior to 2011-12; and at least 12 credits (3 courses) of business elective courses must be offered by HKUST School of Business and Management. ECON 2123, ACCT 2200, and MGMT 4110 are recommended electives.

A minimum of 140 credits is required for the BEng program in Industrial Engineering and Engineering Management and BBA program in General Business Management. For students who are required to take MATH 1018, the minimum total required is 144 credits.