The Hong Kong University of Science and Technology
**Interdisciplinary Programs Office**
An Example on Student's Pathway (as of Sep 30, 2022)

**IEFINA**   **2020-21 Intake**
(Via DDP PBA)

| School: | School of Engineering and School of Business Management | | | Student's Pathway | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Program:** | **Dual Degree Program (BEng in Industrial Engineering and Engineering Management 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 |

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

## BEng in Industrial Engineering and Engineering Management
### Major Requirements
#### Engineering Fundamental Courses

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| COMP COMP COMP | 1021 1022P 2011 | Note: COMP1021 OR COMP1022P OR COMP2011; Introduction to Computer Science; Introduction to Computing with Java; Programming with C++ | 3-4 3 3 4 | 3 | | | | | | | | | | 3 | Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020 |
| ENGG | 1010 | Academic Orientation | 0 | 0 | 0 | | | | | | | | | 0 | |
| CHEM CHEM PHYS PHYS | 1010 1020 1112 1312 | Note: CHEM1010 OR CHEM1020 OR PHYS1112 OR PHYS1312; General Chemistry IA; General Chemistry IB; General Physics I with Calculus; Honors General Physics I | 3 3 3 3 | 3 | | | | | | | | | | 3 | |
| LANG | 2030 | Technical Communication I | 3 | | | | | 3 | | | | | | 3 | |
| MATH MATH MATH MATH MATH MATH | 1012 1013 1014 1020 1023 1024 | Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]; Calculus IA; Calculus IB; Calculus II; Accelerated Calculus; Honors Calculus I; Honors Calculus II | 4-7 4 3 3 4 3 3 | 3 | 3 | | | | | | | | | 6 | |
| MATH | 2011 | Introduction to Multivariable Calculus | 3 | | | | 3 | | | | | | | 3 | |
| MATH | 2111 | Matrix Algebra and Applications | 3 | | | 3 | | | | | | | | 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 | |
| | | **Required credits for Engineering Fundamental Courses** | 22-27 | | | | | | | | | | | 21 | |

#### Major Required Courses and Electives

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IEDA | 1010 | Academic and Professional Development I | 0 | | | 0 | 0 | | | | | | | 0 | |
| IEDA | 1020 | Academic and Professional Development II | 0 | | | | | 0 | 0 | | | | | 0 | |
| IEDA | 1901 | Industrial Training and Experience | 0 | | | | | 0* | 0^ | | | | | 0 | |
| IEDA | 2520 | Probability for Engineers | 3 | | | 3 | | | | | | | | 3 | |
| IEDA | 2540 | Statistics for Engineers | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Substituted by ISOM2500 |
| IEDA | 3010 | Prescriptive Analytics | 3 | | | | | 3 | | | | | | 3 | |
| IEDA | 3230 | Engineering Economics and Accounting | 3 | | | | 3 | | | | | | | 3 | |
| IEDA | 3250 | Stochastic Models | 3 | | | | | 3 | | | | | | 3 | |
| IEDA | 3300 | Industrial Data Systems | 3 | | | | | | 3 | | | | | 3 | |
| IEDA | 4100 | Integrated Production Systems | 3 | | | | | | | | 3 | | | 3 | This course will also be used to substitute ISOM 2700 |
| IEDA | 4130 | System Simulation | 3 | | | | | | | | 3 | | | 3 | |
| IEDA IEDA | 4901 4960 | Note: IEDA4901 OR IEDA4990; Final Year Thesis; Industrial Engineering and Engineering Management Final Year Project | 6 6 | | | | | | | | | 3 | 3 | 6 | |
| ENGG | 2010 | Engineering Seminar Series | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ECON ECON | 2103 2113 | Note: ECON 2103 OR ECON 2113; Principles of Microeconomics; Microeconomics | 3 3 | | | 3 | | | | | | | | 3 | |
| LANG | 4032 | Technical Communication II for Industrial Engineering and Decision Analytics | 3 | | | | | | | | 3 | | | 3 | |
| IEDA | | Industrial Engineering Electives (Courses from the specified 21 elective list, of which at least 15 credits should be taken from 1 of the 2 areas and at least 6 credits outside that area.) | 21 | | | 6 | 3 | | 3 | | 3 | 6 | | 21 | |
| | | **Required credits for Major Requirements Courses and Electives** | 57 | | | | | | | | | | | 54 | |

## BBA in Finance
### School Requirements

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ACCT | 2010 | Principles of Accounting I | 3 | | 3 | | | | | | | | | 3 | |
| ACCT | 2200 | Principles of Accounting II | 3 | | | | | 3 | | | | | | 3 | |
| ECON ECON | 2103 2113 | Note: ECON 2103 OR ECON 2113; Principles of Microeconomics; Microeconomics | 3 3 | | (3) | | | | | | | | | 0 | |
| ECON ECON | 2123 3123 | Note: ECON 2123 OR ECON 3123; Macroeconomics; Macroeconomic Theory I | 3 3 | | | | | | 3 | | | | | 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 |
| 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 | | | 3 | | | | | | | | 3 | This course will also be used to substitute IEDA2540 |
| ISOM | 2600 | Introduction to Business Analytics | 1 | | | | | 1 | | | | | | 1 | |
| ISOM | 2700 | Operations Management | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Substituted by IEDA 4100 |
| 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 | | | | | | 3 | | | | | 3 | |
| LABU | 2060 | Effective Communication in Business | 3 | | | | | | | 3 | | | | 3 | |
| MATH MATH MATH MATH MATH | 1003 1012 1013 1020 1023 | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023; Calculus and Linear Algebra; Calculus IA; Calculus IB; Accelerated Calculus; Honors Calculus I | 3-4 3 4 3 4 3 | (3) | | | | | | | | | | 0 | To satisfy the requirements of both BEng and BBA degrees, DDP students should NOT take MATH 1003. |
| | | **Required credits for School Requirements** | 43-44 | | | | | | | | | | | 32 | |

### Major Requirements
#### Major Required Courses and Electives

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 ACCT ACCT | 3010 3020 3030 | Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030; Financial Accounting I; Financial Accounting II; Intermediate Financial Accounting for Non-Accounting Majors | 3-6 3 3 3 | | | | | 3 | | | | | | 3 | |
| ISOM ISOM | 3230 3400 | Note: ISOM 3230 OR ISOM 3400; Business Applications Programming; Python Programming for Business Analytics | 3 3 3 | | | | | | 3 | | | | | 3 | If DDP students took COMP 1021 in BEng requirement, they are required to enroll ISOM 3230. |
| FINA | | FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) | 9 | | | | | | | | 3 | 3 | 3 | 9 | |
| | | **Required credits for Major Required Courses and Electives** | 25-28 | | | | | | | | | | | 25 | |

## Additional Requirements
### Requirements for Dual Degree Program
#### Required Courses

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TEMG | 1010 | Technology and Management Professional Activities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| TEMG | 3950 | Case-based Problem Solving | 3 | | 3 | | | | | | | | | 3 | |
| | | **Required credits for Additional Requirements** | 3 | | | | | | | | | | | 3 | |

### University CORE

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CORE | C3 - C12 | U CORE - Others | 30 | 3 | 3 | | | | 3 | 6 | 6 | 6 | 3 | 30 | |
| CORE | C1 & C2 | U CORE - English Language | 6 | 3 | 3 | | | | | | | | | 6 | |
| | | **Sub-total for University CORE** | 36 | | | | | | | | | | | 36 | |

| Term load (excl. free credits) | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 15 | 18 | 18 | 17 | 20 | 18 | 18 | 17 | 15 | **171##** |

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

Notes:

( ) indicates the reuse of the same course to fulfill more than one requirement.
\* Courses offered in winter term
^ Courses offered in summer term
--- denotes the course/requirement is either waived or substituted
## To graduate, students should complete all requirements as 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.