ong Kong University of Science and local Interdisciplinary Programs Office An Example on Student's Pathway (as of Nov 9, 2022) | <- Declaration of BEng major | SBA major | BBA major | The Hong Kong University of Science and Technology

<u>CEFINA</u> 2022-23 Intake (Via DDP PBA)

| School: | | School of Engineering and School of Business Management | | | | BEng ma | jor | BBA maj | or | Student | s Pathway | | | | |
|--|---------------------|--|----------------|--------------|---------------|--|---------------|--|------------------------|-------------|---------------|-------------|--|--|---|
| | | | , | | | | | | | Student | s rauiway | | | | |
| Program: | | Dual Degree Program (BEng in Chemical Engineering and BBA in Finance | " | | | | | | | | | | | | |
| | | | | ≺ | Yes | ∠ | Yea | <u>≺</u> | Yea | ≾ | Yea | ≾ | Yes | S | Remarks |
| Course Offering Dept. | 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 |
| course code prefix) | | | its | Fall | spring | 2 Fall | spring | Fa≣ | pring | Fall | spring | Fa∥ | spring | otal | |
| OF a sin Oh | anniant Emmin | | | | a a | <u> </u> | 41 | | u | | <u>u</u> | | J. | | |
| BEng in Cn∈ Major Require | emical Engir | neering | | | | | | | | | | | | | |
| | damental Courses | | | | | | | | | | | | | | |
| OMP | 1021 | Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Introduction to Computer Science | 3-5 3 | | | ! | | I • | | | | | | | Students should take COMP10 |
| COMP | 1022P 2011 | Introduction to Computing with Java Programming with C++ | 3 | 3 | | ! | | <u> </u> | | | | | | 3 | which will also be used to substi ISOM 2010 and to waive ISO |
| COMP | 2012H | Honors Object-Oriented Programming and Data Structures | 5 | | | ! | | <u> </u> | | | | | | 0 | 2020 |
| ANG | 1020 2030 | General Chemistry I Technical Communication I | 3 | 3 | - | ! | - | <u> </u> | - | - | - | - | - | 0 | Waived for DDP students |
| | | Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] | 4-7 | 1 | | ! | | ! | | | | | | | |
| ЛАТН ЛАТН | 1012 1013 | Calculus IA Calculus IB | 4 3 | | | ļ | | <u> </u> | | | | | | | |
| MATH MATH | 1014 1020 | Calculus II Accelerated Calculus | 3 4 | 3 | 3 | ! | | ļ | | | | | | 6 | |
| MATH | 1023 | Honors Calculus I | 3 | | | ! | | ļ | | | | | | | |
| MATH MATH | 1024 2011 | Honors Calculus II Introduction to Multivariable Calculus | 3 | | | <u>†</u> | | 3 | | | | | | 3 | |
| HYS | 1112 | Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus | 3 | | | 3 | | į | | | | | | 3 | |
| PHYS | 1312 | Honors General Physics Required credits for Engineering Fundamental Courses | 3 19-24 | _ | | ! | | <u> </u> | | | | | | 18 | |
| Major Required C | Courses and Electiv | res | 10-24 | | | | | | | | | | | .0 | |
| ENG | 1000 | Note: CENG1000 OR CENG1500 Introduction to Chemical and Biological Engineering | 3 | 3 | | ! | | İ | | | | | | 3 | |
| ENG | 1500 | A First Course on Materials Science and Applications Note: CENG1600 OR CENG1700 OR BIEN1010 | 3 | - | | į | | <u> </u> | | | | | | | |
| ENG ENG | 1600 1700 | Biotechnology and Its Business Opportunities Introduction to Environmental Engineering | 3 | | 3 | į | | į | | | | | | 3 | |
| IEN ENG | 1010 | Introduction to Biomedical Engineering Academic and Professional Development I | 3 0 | | | 0 | - | ! | | - | | - | - | 0 | |
| ENG | 1980 | Academic and Professional Development I Industrial Training | 0 | | $_{\perp}$ | i | | <u> </u> | | | | | 0 | 0 | |
| ENG | 2110 | Process and Product Design Principles | 3 | | | 3 | | | | | | | | 3 | |
| ENG | 2210 2220 | Chemical and Biological Engineering Thermodynamics Transport Phenomena I | 3 | | | i | 3 | ! | | | | | | 3 | |
| ENG | 2310 | Modeling for Chemical and Biological Engineering | 3 | 1 | | 3 | | <u> </u> | | | | | | 3 | |
| ENG ENG | 3110 3150 | Process Dynamics and Control Integrated Chemical Process & Product Design | 3 5 | | | • | - | ! | 3 5 | - | | - | - | 3 5 | |
| ENG | 3210 | Separation Processes | 3 | | | <u>i</u> | | 3 | | | | | | 3 | |
| ENG | 3220 | Heat and Mass Transfer | 3 | | | į — | | 3 | | | | | | 3 | |
| ENG | 3230 3950 | Chemical and Biological Reaction Engineering Chemical and Environment Engineering Laboratory | 3 4 | | | i | | 3 | | | 4 | | | 3 | |
| ENG | 4020 | Academic and Professional Development II | 0 | 1 | | į — | | <u> </u> | | | | 0 | | 0 | |
| 2510 | 4005 | Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6 taking the Research Option must take CENG 4930) | | | | į | | į | | | | | _ | _ | |
| CENG CENG | 4920 4930 | Chemical Engineering Capstone Design Chemical Engineering Thesis Research | 6 6 | | | į | | į | | | | 3 | 3 | 6 | |
| ENGG | 4940 2010 | Chemical Engineering Industrial Project Engineering Seminar Series | 6 0 | _ | + | 0 | 0 | 0 | 0 | | | | | 0 | |
| CHEM | 1050 | Laboratory for General Chemistry I | 1 | 1 | 1 | <u>; </u> | | <u> </u> | | | | | | 1 | |
| HEM | 2111 2155 | Fundamental Organic Chemistry | 3 | <u> </u> | | i | 3 | i | | | | | | 3 | |
| ANG | 4035 | Technical Communication II for Chemical and Biological Engineering | 3 | | | † | <u>'</u> | i | | | | 3 | | 3 | |
| BIEN | 2410 | Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers | 3 | | | ĭ | | ĭ | | | | | | | |
| BIEN LIFS | 2610 1901 | Chemical Biology for Engineers General Biology I | 3 | | | i | 3 | i | | | | | | 3 | |
| SENG/SSCI/ENVR | | CENG Elective (12 credits from specified elective list) | 12 | | | ì | | Ĭ | 3 | 3 | 3 | 3 | | 12 | |
| DDA in Fine | | quired credits for Major Requirements Courses and Electives | S 68 | <u> </u> | | <u>:</u> | | <u> </u> | | | | | | 68 | |
| BBA in Fina School Requi | | | | | | | | | | | | | | | |
| ACCT | 2010 | Principles of Accounting I | 3 | 3 | | 1 | | | | | | | | 3 | |
| ACCT | 2200 | Principles of Accounting II | 3 | | | i | | <u>. </u> | 3 | | | | | 3 | |
| ECON | 2103 | Note: ECON 2103 OR ECON 2113 Principles of Microeconomics | 3 | | 3 | i | | i | | | | | | 3 | |
| ECON | 2113 | Microeconomics Note: ECON 2123 OR ECON 3123 | 3 | - | | i | | i | | | | | | | |
| ECON ECON | 2123 3123 | Macroeconomics Macroeconomic Theory I | 3 | | | i | | i | | 3 | | | | 3 | |
| FINA | 2303 | Financial Management | 3 | | | i | 3 | i | | | | | | 3 | FINA 2303 is a major pre-requisi |
| SOM | 2010 | Introduction to Information Systems | 3 | - | - | i - | - | - | - | | - | | - | 0 | Substituted by COMP 1021/1022P/2011/2012H |
| ISOM | 2020 | Coding for Business | 1 | _ | _ | i . | _ | | | | _ | | _ | 0 | Waived for DDP students if the have taken and passed COMP10 |
| SOM | 2500 | Business Statistics | 3 | _ | | 3 | | | | | | | | 3 | or COMP 1029P |
| SOM | 2600 | Introduction to Business Analytics | 1 | | | i | | 1 | | | | | | 1 | |
| SOM | 2700 | Operations Management | 3 | 1 | | : | | 3 | | | | | | 3 | |
| MARK MGMT | 2120 2010 | Marketing Management Business Ethics and the Individual | 2 | | | i | 3 | | | | | 2 | | 3 | |
| MGMT | 2110 | Organizational Behavior | 3 | | | 3 | | : | | | | | | 3 | |
| ABU | 2130 2040 | Business Ethics and Social Responsibility Business Case Analyses | 3 | | | <u> </u> | - | | | | - | | 2 | 0 | Waived for DDP students |
| .ABU | 2060 | Effective Communication in Business | 3 | | - | | - | | - | · · | 3 | · · | - | 3 | waived for DDF students |
| MATH | 1003 | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra | 3-4 | | | : | | : | | | | | | | DDP students should take MAT |
| MATH MATH | 1012 1013 | Calculus IA Calculus IB | 4 3 | (3) | | : | | : | | | | | | 0 | 1012 or MATH 1013 or MATH 10 or MATH 1023 to satisfy the |
| MATH MATH | 1013 | Accelerated Calculus Honors Calculus I | 4 | | | : | | : | | | | | | | requirements of both BEng and BBA degrees |
| | 110/23 | Required credits for School Requirements | S 45-46 | | | ! | | ! | | | | | | 35 | |
| Major Required C | | 100 | | | | | | | | | | | | | |
| Иајог Required C ^{пла} | Courses and Electiv | /eS Key Skills for Finance Professionals (A) | 1 | | | : | 1 | 1 | | | | | 1 | 1 | |
| INA | 3103 | Intermediate Investments | 3 | | 1 | <u> </u> | | 3 | | | | | | 3 | |
| INA | 3203 | Derivative Securities | 3 | | | Ľ. | | | 3 | | | | | 3 | |
| INA | 3303 | Intermediate Corporate Finance | 3 | | | <u>:</u> | | | | 3 | | | | 3 | |
| INA | 3810 | Bloomberg Market Concepts Certification Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 | 0 3-6 | | - | ! | | 0 | | | | | | 0 | |
| ACCT ACCT | 3010 3020 | Financial Accounting I | 3 | | | į | | ! | | 3 | | | | 3 | |
| ACCT | 3020 3030 | Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors Note: ISOM 3230 OR ISOM 3400 | 3 3 3 | | 1 | i — | | <u> </u> | | | | | | | If DDP students took COMP 1021 |
| SOM | 3230 3400 | Business Applications Programming | 3 | | | : | | : | 3 | | | | | 3 | BEng requirement, they are |
| SOM FINA | 3400 | Python Programming for Business Analytics FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified) | 9 | | | ! | | : | | | 3 | 3 | 3 | 9 | required to enroll ISOM 3230. |
| | 1 | Required credits for Major Required Courses and Electives | | | Ì | İ | | | | | | | | 25 | |
| Additional F | Requirement | | | | • | - | - | | - | - | | - | - | - | • |
| | s for Dual Degr | | | | | | | | | | | | | | |
| Required Courses | s | | | | | | | | 1 | | | | | | |
| EMG | 1010 | T&M Professional Activities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| EMG | 3950 | T&M Case Analysis and Product Innovation | 3 | | 3 | <u>i</u> | <u> </u> | <u>.</u> I | | | | | | 3 | |
| | 4950 | T&M Corporate Consulting Project | 3-5 | | 1 | <u>:</u> | 1 | <u>:</u> | | 1 | | 1 | 4 | 4 | |
| EMG |)RF | Required credits for Additional Requirements | S 7 | Ш | 1 | <u> </u> | L | | <u> </u> | L | ļ | L | L | 7 | <u> </u> |
| | /INE | U CORE - Others | 21 | | | 3 | | <u> </u> | | 6 | 6 | 3 | 3 | 21 | |
| Jniversity CO | | | 6 | 3 | 3 | ' | | | | | U | 3 | 3 | 6 | |
| Jniversity CO | C3 - C9 C1 & C2 | U CORE - English Language | | | | | i — | : | i e | 1 | 1 | l e | 1 | 1 | |
| Jniversity CO ORE ORE | C3 - C9 | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness | 3 | 1 | 2 | <u>:</u> | | <u> </u> | | | | <u></u> | | 3 | |
| University CO XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | C3 - C9 C1 & C2 | | | 1 | 2 | ļ | | İ | | | | | | 30 | |
| Jniversity CO ORE ORE | C3 - C9 C1 & C2 | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness | | | | 18 | | erm load (ex | | | 10 | 17 | 15 | | |
| Jniversity CO ORE ORE | C3 - C9 C1 & C2 | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness | | 19 | 18 | 18 | T- 19 | 20 | cl. free cred | its) 18 | 19 | 17 | 15 | | |
| Jniversity CO ORE ORE | C3 - C9 C1 & C2 | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness | | | | 18 << Declar BEng ma | 19 | 20 | 20 3## ration of | | 19 | 17 | 15 | | |

[^] Courses offered in summer term

**Remarks on course(s):

⁻⁻⁻ denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as specified for DDP.

>> 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.