The Hong Kong University of Science and Technology

CEECON 2022-23 Intake **Interdisciplinary Programs Office** (Via DDP PBA) An Example on Student's Pathway (as of May 2, 2023) << Declaration of | BEng major BBA major School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Chemical Engineering and BBA in Economics) rogram Remarks Offering Dept.
(course code prefix) Course Code Course Title / Courses List 5 Spring BEng in Chemical Engineering **Major Requirements** Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Students should take COMP1021 Introduction to Computer Science Introduction to Computing with Java which will also be used to substitute 2011 Programming with C++ SOM 2010 and to waive ISOM 202 COMP Honors Object-Oriented Programming and Data Structures СНЕМ General Chemistry B: Atomic Structure, Molecules, and Bonding Theories LANG 2030 Technical Communication I Waived for DDP students Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 Calculus IA MATH 1013 Calculus IB 3 3 MATH 1014 Calculus II MATH Accelerated Calculus MATH 1023 Ionors Calculus I MATH Honors Calculus II Introduction to Multivariable Calculus Note: PHYS 1112 OR PHYS 1312 3 3 2011 MATH 3 1112 3 3 PHYS General Physics I with Calculus Required credits for Engineering Fundamental Courses 19-24 18 Major Required Courses and Electives Note: CENG1000 OR CENG1500 3 3 CENG 1000 ntroduction to Chemical and Biological Engineering A First Course on Materials Science and Applicati Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities Introduction to Environmental Engineering CENG 1600 3 3 CENG Introduction to Biomedical Engineering CENG 1010 Academic and Professional Development I 1980 0 CENG Industrial Training 0 CENG 2110 Process and Product Design Principles 3 3 3 Chemical and Biological Engineering Thermodynamics CENG 2220 Transport Phenomena I 3 CENG 2310 Modeling for Chemical and Biological Engineering 3 3 CENG 3110 Process Dynamics and Control 3 3 3 CENG 3150 Integrated Chemical Process & Product Design 5 5 5 CENG 3210 Separation Processes 3 3 CENG 3220 Heat and Mass Transfer 3 3 CENG 3230 Chemical and Biological Reaction Engineering 3 3 3 Data Science for Molecular Engineering CENG 3330 3 3 4 CENG 3950 Chemical and Environment Engineering Laboratory 4 4 CENG Academic and Professional Development II

Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6 Note: CENG 4930 ON 0 **ENGG** 2010 Engineering Seminar Series 0 0 0 0 CHEM 1050 Laboratory for General Chemistry I СНЕМ 2111 Fundamentals of Organic Chemistry CHEM Fundamental Organic Chemistry Laboratory 2155 Technical Communication II for Chemical and Biological Engineering Note: BIEN2410 OR BIEN2610 OR LIFS1901 3 BIEN 2410 2610 Cellular and Systems Physiology for Engineers 3 3 BIEN Chemical Biology for Engineers eneral Biology I 9 Required credits for Major Requirements Courses and Electives 68 68 **BBA** in Economics School Requirements ACCT Principles of Accounting I 3 3 3 Principles of Accounting II
Note: ECON 2103 OR ECON 2113 ACCT 2200 3 3 ECON 2103 / 2113 / 2123 is a maj **ECON** 2113 ∕licroeconomics Note: ECON 2123 OR ECON 312 pre-requisite **ECON** 3123 Macroeconomic Theory I FINA 2303 Financial Management 3 3 3 Introduction to Information Systems 3 2010 1021/1022P/2011/2012H
Waived for DDP students if they
have taken and passed COMP1021
or COMP 1029P 0 2020 1 ISOM Coding for Business 2500 Business Statistics ISOM 3 ISOM 2600 Introduction to Business Analytics ISOM 2700 Operations Management 3 3 3 MARK 2120 Marketing Management 3 3 MGMT 2010 Business Ethics and the Individual 2 2 MGMT 2110 3 3 Organizational Behavior 3 MGMT 2130 Business Ethics and Social Responsibility 2 Waived for DDP students Business Case Analyses LABU 0 Writing as an Economist
Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 ECON 3700 3-4 DDP students should take MATH 1003 MATH Calculus and Linear Algebra 1012 or MATH 1013 or MATH 102 MATH 1012 Calculus IA (3) 0 or MATH 1023 to satisfy the матн uirements of both BEng and BB degrees MATH Required credits for School Requirements 45-46 35 Major Requirements Major Required Courses and Electives 3014 Managerial Microeconomics Managerial Macroeconomics ECON 3024 ECON 3334 Introduction to Econometrics 4 ECON 4000-level Electives (Any 3 courses of the subject and level as specified) 11 ECON 11 equired credits for Maio Additional Requirements Requirements for Dual Degree Program Required Courses TEMG TEMG 3950 T&M Case Analysis and Product Innovation 3 3 3 TEMG 3-5 4 T&M Corporate Consulting Project 4 4950 Required credits for Additional Requirements University CORE C3 - C9 U CORE - Others 21 21 CORE U CORE - English Language CORE C1 & C2 6 3 6

Notes

CORE

Behavioral Foundations of University Education: Habits, Mindsets, and Wellnes

Sub-total for University CORE

1905

**Remarks on course(s):

3

30

3

19

<< Declaration of << Declarati BEng major

18 181## << Declaration of BBA major

30

^() 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.