The Hong Kong University of Science and Technology CEGBUS 2024-25 Intake Academy of Interdisciplinary Studies (Via DDP PBA) An Example on Student's Pathway (as of August 8, 2024) School of Engineering and School of Business Management School Student's Pathway Dual Degree Program (BEng in Chemical Engineering and BBA in Global Business) Remarks Course Code Course Title / Courses List course code prefix) BEng in Chemical Engineering Major Requirements Engineering Fundamental Courses Students should take COMP1021 which will also be used to substitute SOM 2010 and to waive ISOM 202 ntroduction to Computer Science ntroduction to Computing with Java OMP 2011 rogramming with C++ COMP 2012H Ionors Object-Oriented Programming and Data Structures General Chemistry B: Atomic Structure, Molecules, and Bonding Theories
Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND CHEM 1012 (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH MATH MATH MATH 1012 1013 1014 1020 Calculus IA Calculus IB Calculus II Honors Calculus I Honors Calculus II 023 MATH 024 Introduction to Multivariable Calculus Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus MATH 2011 3 3 1112 PHYS 3 3 3 Honors General Physics 1
Required credits for Engineering Fundamental Courses 16-21 18 Major Required Courses and Electives Note: CENG1000 OR CENG1500 ntroduction to Chemical and Biological Engineering 3 3 CENG 1000 ENG 500 First Course on Materials Science and Application Iote: CENG1600 OR CENG1700 OR BIEN1010 CENG 1600 Biotechnology and Its Business Opportunities 3 3 ntroduction to Environmental Engineering CENG 1700 BIEN ntroduction to Biomedical Engineering 1010 Academic and Professional Development I 0 CENG 1980 Industrial Training 0 0 CENG 2110 Process and Product Design Principles 3 3 CENG 2210 Chemical and Biological Engineering Thermodynamics 3 3 ENG 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 Separation Processes CENG 3210 3 3 ENG leat and Mass Transfer ENG 3230 chemical and Biological Reaction Engineering 3 3 3 CENG 3330 Data Science for Molecular Engineering 3 3 CENG 3950 Chemical and Environment Engineering Laboratory 4 4 0 CENG 4020 Academic and Professional Development II

Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6 0 aking the Research Option must take CENG 4930) Chemical Engineering Capstone Design Chemical Engineering Thesis Research Chemical Engineering Industrial Project CENG 6 4930 Engineering Seminar Series HEM 1052 aboratory for General Chemistry B CHEM 2111 Fundamentals of Organic Chemistry 3 3 CHEM 2155 Fundamental Organic Chemistry Laboratory Note: BIEN2410 OR BIEN2610 OR LIFS1901 1 2410 2610 BIEN 3 3 3 eneral Biology I CENG/CHEM 9 9 Required credits for Major Requirements Courses and Electives **BBA in Global Business School Requirements** Principles of Accounting I ACCT 2200 Principles of Accounting II Note: ECON 2103 OR ECON 2113 3 3 3 3 CON 2103 Principles of Microeconomics 2113 <u>Microeconomics</u> Note: ECON 2123 OR ECON 3123 ECON 2123 3 3 3 Macroeconomic Theory inancial Management 3 2303 Substituted by COMF SOM 2010 ntroduction to Information Systems 3 0 1021/1022P/2011/2012H Vaived for DDP students if they have SOM 2020 Coding for Business 1 0 taken and passed COMP1021 or COMP 1029P SOM 2500 Business Statistics 3 3 3 SOM Introduction to Business Analytics SOM 2700 Operations Management 3 MARK 2120 3 Marketing Management 3 2010 2 2 susiness Ethics and the Individual Organizational Behavior MGMT 2110 **JIGMT** 2130 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH MATH MATH MATH MATH 1003 1012 1013 1020 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA Accelerated Calculus Honors Calculus I degrees Required credits for School Requirements 39-40 32 **Major Requirements** Major Required Courses and Electives BUS 1000 Global Leadership Development 0 0 0 0 0 0 0 GBUS 2010 Global Business Analysis 3 3 3 Note: GBUS 2020 OR GBUS 2040 OR SMBT 2100-2110 GBUS/SBN 2020 [1] Environmental, Social, and Governance (ESG) Corporate Project 2040 SBMT 2100-21 Community Services Project 3-4 4 3 GBUS/ISOM Note: GBUS 3030 OR ISOM 4780 [3] Global Business Case Studies SOM 4780 ntegrated Planning and Execution GBUS [4] Global Business Electives (Courses from the specified elective list, of which at least 6 credit rom each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill 15 GBUS 15 3 quirements of an additional major in SBM may not be counted towards this elective Required credits for Major Required Courses and Electives 26-30 26 **Additional Requirements** Requirements for Dual Degree Program Required Courses remg T&M Professional Activities EMG 3950 N Case Analysis and Product Innovation 3 3 EMG T&M Corporate Consulting Project 3-5 4 4950 **Required credits for Additional Requirements** 7

HMAW

ORE

ORE

University CORE

C3 - C9

C1 & C2

1905

178##

<< Declaration of
BEng major
BBA major

19 21 18 19 19 18 16 16 15 17

21

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Notes:

() indicates the reuse of the same course to fulfill more than one requirement.

J CORE - Others

U CORE - English Language

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

Sub-total for University CORE

* 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.

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>> 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.