## The Hong Kong University of Science and Technology Academy of Interdisciplinary Studies

**CEMARK** 2023-24 Intake (Via DDP PBA)

An Example on Student's Pathway (as of August 3, 2023)

School of Engineering and School of Business Management School Student's Pathway Dual Degree Program (BEng in Chemical Engineering and BBA in Marketing) Remarks Course Code Course Title / Courses List course code prefix) BEng in Chemical Engineering Major Requirements Engineering Fundamental Courses Introduction to Computer Science Introduction to Computing with Java which will also be used to substitute SOM 2010 and to waive ISOM 202 OMF 2011 Programming with C++ COMP 2012H Honors Object-Oriented Pro СНЕМ 1020 General Chemistry I 3 3 Waived for DDP students LANG 2030 Technical Communication I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 0 (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 1013 1014 1020 1023 3 6 lonors Calculus I MATH 2011 Introduction to Multivariable Calculus 3 3 3 Note: PHYS 1112 OR PHYS 1312 1112 3 PHYS General Physics I with Calculus 3 3 Required credits for Engineering Fundamental Courses 19-24 18 Major Required Courses and Electives CENG 1000 ntroduction to Chemical and Biological Engineering 3 CENG 500 A First Course on Materials Science and Applications
Note: CENG1600 OR CENG1700 OR BIEN1010 CENG Biotechnology and Its Business Opportunities Introduction to Environmental Engineering 3 3 CENG 1700 BIEN 1010 ntroduction to Biomedical Engineering CENG 1010 Academic and Professional Development I 0 0 CENG 1980 Industrial Training 0 0 2110 Process and Product Design Principles CENG 3 3 ENG 2210 Chemical and Biological Engineering Thermodynar CENG 2220 3 Modeling for Chemical and Biological Engineering CENG 2310 3 3 CENG 3110 Process Dynamics and Control 3 3 CENG 3150 Integrated Chemical Process & Product Design 5 5 5 ENG 3210 3 CENG 3220 Heat and Mass Transfer 3 Chemical and Biological Reaction Engineering CENG 3230 3 3 CENG 3330 Data Science for Molecular Engineering 3 3 CENG 3950 Chemical and Environment Engineering Laboratory 4 4 4 Academic and Professional Development II

Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6 ENG taking the Research Option must take CENG 4930) Chemical Engineering Capstone Design Chemical Engineering Thesis Research Chemical Engineering Industrial Prolect CENG 4920 6 CENG 4930 ENG 2010 0 0 0 CHEM 1050 Laboratory for General Chemistry 1 1 CHEM 2111 Fundamentals of Organic Chemistry 3 3 3 Fundamental Organic Chemistry Laboratory CHEM 2155 1 1 Technical Communication II for Chemical and Note: BIEN2410 OR BIEN2610 OR LIFS1901 ANG d Biological Engineering BIEN 2410 Cellular and Systems Physiology for Engineers 3 3 3 BIEN 2610 Chemical Biology for Engineers General Biology I CENG/CHEM CENG Elective (9 credits from specified elective list) 9 Required credits for Major Requirements Courses and Electives 68 68 **BBA** in Marketing School Requirements Principles of Accounting I 3 3 2200 Principles of Accounting II Note: ECON 2103 OR ECON 21 3 ECON 2103 3 3 3 Principles of Microeconomics ECON 2113 Microeconomics Note: ECON 2123 OR ECON 3123 CON 2123 3 ECON 3123 Macroeconomic Theory I 2303 SOM 2010 Introduction to Information Systems 3 0 1021/1022P/2011/2012H
/aived for DDP students if they have taken and passed COMP1021 or COMP 1029P SOM 2020 0 Coding for Business ISOM 2500 **Business Statistics** 3 ISOM 2600 Introduction to Business Analytics 1 ЮМ 2700 Operations Management 3 MARK 2120 Marketing Management 3 MARK 2120 is a major pre-requisite MGMT 2010 Business Ethics and the Indi MGMT 2110 Organizational Behavior MGMT 2130 Business Ethics and Social Responsibilit 2 2 Note: LANG 2061 OR 2062 OR 3060 ONLY a 3-credit of SBM-specific Professional Writing for the Workplace Professional Speaking for the Workplace English course, in which they car LANG 3 2062 hoose from one of the three LANC Advanced Academic Writing 3060 courses (LANG 2061, LANG 2062, Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH 1012 or MATH 1013 or MATH 1020 MATH 1003 Calculus and Linear Algebra MATH 1012 1013 Calculus IA (3) 0 or MATH 1023 to satisfy the MATH Calculus IB quirements of both BEng and BB degrees Required credits for School Requirements **Major Requirements** Major Required Courses and Electives Marketing Research 4 4 4 IARK 3420 Consumer Behavio 4 MARK 4210 Strategic Marketing MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) /ARK 12 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses T&M Professional Activities T&M Case Analysis and Product Innovation EMG 3950 3 3 ΓEMG 3-5 4950 T&M Corporate Consulting Project 4 Required credits for Additional Requirements 7 7 **University CORE** U CORE - Others 21 21 CORE C1 & C2 U CORE - English Language 6 3 6 IMAW 1905 Behavioral Foundations of University Education: Habits, Mindsets, and Wellness 3 2 3 Sub-total for University CORE 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.

<< Declaration of | << Declaration of BBA major

BEng major

<sup>&</sup>gt;> 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.