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

An Example on Student's Pathway (as of August 8, 2024)

CEMGMT 2024-25 Intake (Via DDP PBA)

<< Declaration of | BEng major Dual Degree Program (BEng in Chemical Engineering and BBA in Management) rogram Remarks Year 4 Fall Course Title / Courses List Offering Dept course code prefix) BEng in Chemical Engineering Major Requirements Engineering Fundamental Courses e: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020 Vote: COMPT021 OR COMPT022P OR COMP2011 OR Introduction to Computing with Java
Programming with C++

-lonors 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 1012 (MATH 1014 OR MATH 1024)] OR [MATH 1020] 1012 Calculus IA 1013 Calculus IB 3 3 1014 1020 1023 Calculus II Accelerated Calculus Honors Calculus I MATH 1024 Honors Calculus II ntroduction to Multivariable Calculus Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus 2011 1112 3 3 nors General Physics |
Required credits for Engineering Fundamental Courses | 16-21 18 Major Required Courses and Electives Note: CENG1000 OR CENG1500 3 3 3 CENG 1000 Introduction to Chemical and Biological Engineering CENG 1500 A First Course on Materials Science and Applications Note: CENG1600 OR CENG1700 OR BIEN1010 1600 1700 1010 Biotechnology and Its Business Opportunities Introduction to Environmental Engineering Introduction to Biomedical Engineering 3 BIEN CENG 1010 Academic and Professional Development I 0 0 CENG 1980 0 Industrial Training 0 2110 Process and Product Design Principle CENG 2210 Chemical and Biological Engineering Thermodynamics 3 3 CENG 2220 3 3 3 CENG 2310 Modeling for Chemical and Biological Engineering 3 3 CENG 3110 Process Dynamics and Control 3 3 Integrated Chemical Process & Product Design CENG 3210 3 3 CENG 3220 Heat and Mass Transfer 3 3 3 Chemical and Biological Reaction Engineering CENG 3230 3 3 3 CENG 3330 3 3 Data Science for Molecular Engineering Academic and Professional Development II CENG 4020 0 Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6 taking the Research Option must take CENG 4930) Chemical Engineering Capstone Design Chemical Engineering Thesis Research CENG 4940 Chemical Engineering Industrial Project **ENGG** 2010 Engineering Seminar Series 0 0 0 0 0 Laboratory for General Chemistry B CHEM 1052 СНЕМ Fundamentals of Organic Chemistry CHEM 2155 Fundamental Organic Chemistry Laborato 1 Note: BIEN2410 OR BIEN2610 OR LIFS1901
Cellular and Systems Physiology for Engineers
Chemical Biology for Engineers General Biology I 1901 CENG/CHEM CENG Elective (9 credits from specified elective list) 9 9 Required credits for Major Requirements Courses and Electives 65 65 **BBA** in Management School Requirements Principles of Accounting I 3 Principles of Accountin Note: ECON 2103 OR ECON 2113 3 3 ECON 2103 3 Principles of Microeconomics ECON 2113 Microeconomics Note: ECON 2123 OR ECON 3123 2123 3 3 ECON 3 **ECON** 3123 Macroeconomic Theory I Substituted by COMP SOM 2010 Introduction to Information Systems 3 1021/1022P/2011/2012H
Waived for DDP students if they have taken and passed COMP102 ISOM 2020 Coding for Business 1 0 or COMP 1029P 3 3 Introduction to Business Analytics ISOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 3 3 MGMT 2010 Business Ethics and the Individual 2 2110 3 MGMT Organizational Behavior 3 MGMT 2110 is a major pre-requis Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH MATH 1003 Calculus and Linear Algebra 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BB/ MATH MATH 1012 Calculus IA (3) 1013 Calculus IB degrees MATH Honors Calculus I Required credits for School Requirements 39-40 **Major Requirements** Major Required Courses and Electives ote: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use GMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this Note: MGMT 3110 OR MGMT 3120 (For MGMT 3110 to fulfill the Option Requirer Students in the Consulting Option must take MGMT 3120 Managerial Leadership
Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.)
Judgement and Decision Making in Organizations Option must take MGMT 3140 MGMT Negotiation
Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Con-3-4 Students in the Consulting Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this Option must take MGMT 4210 Students in the CSR Option MGMT 4210 MGMT 4220 must take MGMT 4210 Students in the Consulting MGMT 3000-level or above Electives (Anv 3 courses of the subject and level as specified take MGMT 4220 and a new 3 3 3 9 MGMT Courses taken as Option Required Courses may not be counted towards the elective course in Simulating Strategy requirement.) to fulfill the major elective Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Course T&M Case Analysis and Product Innovation TEMG 3950 3 TEMG 4950 T&M Corporate Consulting Project 3-5 4 Required credits for Additional Requirements **University CORE** CORE C3 - C9 U CORE - Others 21 21 U CORE - English Language CORE C1 & C2 HMAW Behavioral Foundations of University Education: Habits, Mindsets, and Wellness Sub-total for University CORE 30 19 21 18 19 20 18 16 16 11 14 172## << Declaration of << Declaration of

**Remarks on course(s)

BBA major

⁽⁾ 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

>> 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 mation on course offering and scheduling, students should check it out from respective School and Department