The Hong Kong University of Science and Technology Academy of Interdisciplinary Studies An Example on Student's Pathway (as of April 1, 2025)

CEECON 2025-26 Intake (Via DDP PBA)

<< Declaration of BBA major << Declaration of BEng major School of Engineering and School of Business Management Student's Path Oual Degree Program (BEng in Chemical Engineering and BBA in Economics) Year 2 Spring Year 3 Fall Remarks Year Year 4 Fall Course Offering Dept. Course Code Course Title / Courses List 1 Fall (course code prefix) BEng in Chemical Engineering **Engineering Fundamental Courses** troduction to Computing with Java troduction to Python Programming rogramming with C++ onors Object-Oriented Programming and Data Structures Students should take COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to walve ISOM 2020 1023 2011 COMP CHEM 1012 General Chemistry B: Atomic Structure, Molecules, and Bonding Theories 3 3 3 Note: MATH 1013 OR MATH 1020 OR MATH 1023 3-4 DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees MATH MATH MATH 1013 1020 1023 onors Calculus I Note: PHYS 1112 OR PHYS 1312 3 3 PHYS PHYS 1112 Seneral Physics I with Calculus onors General Physics I 1312 Required Credits for Engineering Fundamental Courses 13-19 Major Required Courses and Electives NOTE: Those entering the department in Year 2 will takethis cousre in Year 2 Fall. oundations of Chemical and Biological Engineering 3 3 3 CENG CENG 1010 Academic and Professional Development I 0 ntroduction to Chemical Engineering CENG 1110 3 3 NOTE: Those entering the department in Year 2 will takethis cousre in Year 2 Fall. CENG 1500 A First Course on Materials Science and Applications 3 3 CENG 2210 Chemical and Biological Engineering Thermodynamics 3 CENG 3 3 2220 Transport Phenomena I CENG 2310 Modeling for Chemical and Biological Engineering 3 3 CENG 2320 Modeling for Chemical and Biological Engineering II 3 3 CENG 3110 Process Dynamics and Control 3 3 CENG Integrated Chemical Process & Product Design CENG Separation Processes 3 3 CENG 3220 3 Chemical and Biological Reaction Engineering CENG 3230 3 3 CENG 3300 Data Science for Molecular Engineering 3 3 3 CENG 3950 Chemical and Environment Engineering Laboratory 4 4 CENG 4020 Academic and Professional Development II 0 0 0 Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students 6 king the Research Option must take CENG 4930 Chemical Engineering Capstone Design Chemical Engineering Thesis Research Chemical Engineering Industrial Project CENG CENG 4920 4930 CENG 4940 Note: BIEN2410 OR BIEN2610 OR LIFS1901 Cellular and Systems Physiology for Engineers 2610 1901 Chemical Biology for Engineers General Biology I CHEM 1052 Laboratory for General Chemistry B CHEM 2111 offered in Fall CHEM 2111 Fundamentals of Organic Chemistry 3 3 3 CHEM CENG/BIEN/COMP/ 2155 Fundamental Organic Chemistry Laboratory CENG Elective (Courses from the specified list) 12 BEng in Chemical Engineering Major Requirements 13 **BBA** in Economics School Requirements Principles of Accounting I Principles of Accounting II lote: ECON 2103 OR ECON 2113 3 ECON 2103 Principles of Microeconomics 3 ECON ECON 2103 / 2113 / 2123 is a major pre-requisite Note: ECON 2123 OR ECON 3123 3 Macroeconomics Macroeconomic Theory I FINA 2303 Financial Management COMP 1023, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010, Students SHOULD take COMP1023 or COMP2011 or COMP2012H ISOM 2010 troduction to Information Systems 3 ompared to 100 m 2010. Students who have taken and passed COMP 1023, COMP 2011 and COMP 2012. SOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 2011 and COMP 2012H ISOM 2020 Coding for Business 0 These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020 ISOM 2500 Business Statistics 3 0 Substituted by CIVL 2160 ISOM 2600 Introduction to Business Analytics 1 ISOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 MGMT usiness Ethics and the Ind MGMT 2110 Organizational Behavior 3 Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 MATH MATH MATH MATH 1003 1013 Calculus and Linear Algebra DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and (3) Calculus IB ccelerated Calculus Ionors Calculus I Required credits for School Requirements 39-40 29 Major Required Courses and Electives Managerial Microeconomics 3014 4 ECON 3024 Managerial Macroeconomics ECON 3334 ntroduction to Econometrics ECON 4000-level Electives (Any 3 courses of the subject and level as spe-Required Credits for Major Required Courses and Electives 23 23 Additional Requirement for Dual Degree Requirements for Dual Degree Program TEMG 1011 T&M Professional Activities I TEMG T&M Professional Activities II TEMG TEMG 1014 T&M Professional Activities IV graduate, students should complete ALL requirements as specified for DDP TEMG 1015 T&M Professional Activities V 0 0 TEMG Required Credits for Additional Requirements 7 **University Common Core Requirement** U CORE - Others C1 & C2 J CORE - English Language Behavioral Foundations of University Education: Habits, Mindsets, and Wellnes 1905 Sub-total for University CORE 30 30

16 21 19 18 17 19 17 16

172

Notes:

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

^ 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.

**Remarks on course(s):

^{*} Courses offered in winter term

>> 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.