The Hong Kong University of Science and Technology **Interdisciplinary Programs Office**

An Example on Student's Pathway

BEECON 2020-21 Intake (Via DDP PBA)

School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Bioengineering and BBA in Economics) Remarks ourse Code Course Title / Courses List Dept de prefix **BEng in Bioengineering Major Requirements** Engineering Fundamental Courses Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science Introduction to Computing with Java 3 substitute ISOM 2010 Python Programming Bridging Course COMP rogramming with C++ 3 eneral Chemistry IB CHEM 1050 Laboratory for General Chemistry I 1 LANG 2030 Fechnical Communication I 3 3 3 LIFS 1901 General Biology I 3 3 3 Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] 4-7 Note: PHYS 1112 OR PHYS 1312
General Physics I with Calculus
Honors General Physics I
Engineering Introduction course (if the students take an introduction course included in their major, this 3 3 3-4 0 (3) course can be counted towards their major re-Required credits for Engineering Fundamental Courses 23-29 22 Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 3 3 Introduction to Chemical and Biiological Engineering CENG Modeling for Chemical and Biological Engineering 2310 3 3 Cellular and Systems Physiology for Engineers 410 BIEN 3 3 BIEN 610 Chemical Biology for Engineers 3 3 BIEN 2990 Academic and Professional Development I 1 1 BIEN 3240 Transport Phenomena in Biological Systems 3 3 Data Science for Biology and Medicine BIEN 3320 3 3 Introduction to Bioinstrumentation and Bioimaging BIEN 410 3 3 BIEN 3910 4 4 4 Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 BIEN Bioengineering Capstone Design Bioengineering Thesis Research 3 6 1940 Bioengineering Industrial Project BIEN Academic and Professional Development II BIEN 990 1 CENG Chemical and Biological Engineering Thermodynamics 3 3 Chemical and Biological Reaction Engineering 3 ENGG 0 0 Note: LIFS 3150 OR MATH 2411 IFS 150 3 3 MATH Applied Statistics Technical Communication II for Chemical and Biological Engineering ANG 1035 15 Required credits for Major Required Courses and Electives 60-61 60 **BBA** in Economics School Requirements Principles of Accounting I ACCT Principles of Accounting II 3 3 3 Note: ECON 2103 OR ECON 2113 3 3 ECON 2103/2113/2123 is a Note: ECON 2123 OR ECON 3123 123 3 3 ECON 123 Macroeconomic Theory Financial Management Substituted by COMP SOM 010 Introduction to Information Systems 3 0 1021/1022P/COMP2011 SOM 020 Coding for Business 1 0 ISOM 500 Business Statistics 3 0 LIFS 3150/MATH 2411 SOM 600 Introduction to Business Analytics 0 BIEN3320 ISOM 700 Operations Management 3 3 120 Marketing Management 3 3 Business Ethics and the Individual 2 130 Business Ethics and Social Responsibility 2 2 Business Student Induction Substituted by ENGG 1010 ABU 040 Business Case Analyses ABU 060 Effective Communication in Business 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023
Calculus and Linear Algebra
Calculus IA
Calculus IA
Accelerated Calculus I
Honors Calculus I DDP students should take MATI 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees Required credits for School Requirements 43-44 34 Major Requirements Major Required Courses and Electives Managerial Microeconomics CON 334 Introduction to Econometrics onomics Research and Communication 0 ECON 4000-level Electives (Any 3 courses of the subject and level as specified) Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses Technology and Management Professional Activities Case-based Problem Solving Required credits for Additional Requirements University CORE U CORE - Others 30 U CORE - English Language Sub-total for University CORE 36 19 178## << Declaration of BEng major << Declaration of BBA major Notes:

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

*Remarks on course(s):

^[] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.

⁻⁻⁻ denotes the course/requirement is either waived or substitued

^{##} To graduate, students should complete all requirements 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 information on course offering and scheduling, students should check it out from respective School and Department.