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

 BEMARK 2020-21 Intake (Via DDP PBA)

School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Bioengineering and BBA in Marketing) rogram: Remarks Offering ourse Code Course Title / Courses List BEng in Bioengineering Major Requirements Engineering Fundamental Courses Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science his course will also be used to 3 ntroduction to Computing with Java substitute ISOM 2010 COMP COMP 1029P Python Programming Bridging Course Programming with C++ 2011 3 CHEM 1020 General Chemistry IB HEM 1050 Laboratory for General Chemistry I ANG 2030 Technical Communication I 3 General Biology I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB Calculus II 1012 1013 3 3 1014 1020 1023 ccelerated Calculus onors Calculus I onors Calculus I Note: PHYS 1112 OR PHYS 1312 PHYS 1112 3 3 PHYS 1312 Engineering Introduction course (if the students take an introduction course included in their major, this course can be counted towards their major requirement.) SENG 3-4 (3) 0 23-29 Required credits for Engineering Fundamental Courses 22 Major Required Courses and Electives Note: BIEN 1010 OR CENG 1000 3 3 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering CENG 2310 Modeling for Chemical and Biological Engineering 3 BIEN 2410 Cellular and Systems Physiology for Engineers 3 3 BIEN 2610 Chemical Biology for Engineers 3 3 3 BIEN 2990 Academic and Professional Development I 1 1 BIEN 3240 Transport Phenomena in Biological Systems 3 3 BIEN 3320 Data Science for Biology and Medicine 3 3 BIEN Introduction to Bioinstrumentation and Bioimaging 3910 ioengineering Laboratory lote: BIEN 4920 OR BIEN 4930 OR BIEN 4940 one. DIEN 4920 OR BIEN 4930 bengineering Capstone Design bengineering Thesis Research bengineering Industrial Project BIEN 4990 Academic and Professional Development II 1 CENG 2210 Chemical and Biological Engineering Thermodynamics 3 3 CENG 3230 Chemical and Biological Reaction Engineering 3 3 NGG 2010 ote: LIFS 3150 OR MATH 2411 3 3 applied Statistics Technical Communication II for Chemical and Biological Engineering ANG 4035 3 Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should 15 3 15 SCI/SENG 6 6 be at 4000-level) Required credits for Major Required Courses and Electives 60-61 BBA in Marketing School Requirements Principles of Accounting I Principles of Accounting II ote: ECON 2103 OR ECON 2113 3 3 Note: ECON 2123 OR ECON 3123 2123 3 3 ECON 3123 Macroeconomic Theory I INA 2303 Financial Management 3 Substituted by COMP SOM 2010 Introduction to Information Systems ISOM 2020 Coding for Business 1 0 1021/1022P/1029P/2011 2500 3 LIFS 3150/MATH 2411 SOM 2600 Introduction to Business Analytics 1 0 Substituted by BIEN3320 SOM 2700 Operations Management MARK 2120 is a major pre MARK 2120 Marketing Management 2010 Business Ethics and the Individual 2 иGMT 2110 Organizational Behavior 3 Business Ethics and Social Responsibility MGMT 2130 2 2 2 Substituted by ENGG 1010 SBMT 1111 Business Student Induction 0 0 LABU 2040 Business Case Analyses 3 3 3 LABU 2060 Effective Communication in Business 3 3 3 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3-4 1003 Calculus and Linear Algebra MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to 1012 1013 Calculus IA (3) 0 Calculus IB satisfy the requirements of both BEng and BBA degrees onors Calculus I Required credits for School Requirements Major Requirements Major Required Courses and Electives Marketing Research MARK 3220 4 MARK 3420 Consumer Behavior 4 4 MARK 4210 Strategic Marketing 4 12 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses 1010 Technology and Management Professional Activities 0 TEMG Case-based Problem Solving 3950 Required credits for Additional Requirements 3 **University CORE** C3 - C12 U CORE - Others U CORE - English Language Sub-total for University CORE 36 19 18 18 19 20 19 17 179## 

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

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## To graduate, students should complete all requirements specified for DDP
\*\*Remarks on course(s):