**BEECON** (Via DDP PBA) 2021-22 Intake

An Example on Student's Pathway (as of July 22, 2022)

major major

Student's Pathway

rogram: Dual Degree Program (BEng in Bioengineering and BBA in Economics) Remarks offering Dept ourse Code Course Title / Courses List refix) BEng in Bioengineering Major Requirements Engineering Fundamental Courses BITCH COURSES

Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]
Introduction to Computer Science
Introduction to Computing with Java
Python Programming Bridging Course
Programming with C++
Honors Object-Oriented Programming and Data Structures

Academic Orientation Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020 COMP 2012H lote: CHEM1010 OR CHEM 1020 3 3 CHEM 1020 General Chemistry IB СНЕМ 1050 \_aboratory for General Chemistry I LANG 2030 echnical Communication I 3 Waived for DDP students LIFS 1901 General Biology I Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND 3 3 MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 MATH 1013 1014 Calculus IB 3 3 6 MATH MATH ccelerated Calculus MATH 023 Ionors Calculus I Honors Calculus II
Note: PHYS 1112 OR PHYS 1312
General Physics I with Calculus MATH 3 3 PHYS 1312 tonors General Physics I ingineering Introduction course (If the students take an introduction course included in their major, (3) 0 ourse can be counted towards their major requirement.) Required credits for Engineering Fundamental Courses 23-29 19 Major Required Courses and Electives
Note: BIEN 1010 OR CENG 1000 3 3 ntroduction to Biomedical Engineering CENG 1000 ntroduction to Chemical and Biiological Engineering Modeling for Chemical and Biological Engineering 2410 BIEN cellular and Systems Physiology for Engineers 3 3 3 BIEN 2610 Chemical Biology for Engineers 3 3 3 Academic and Professional Development I BIEN 2990 Note: BIEN 3310 OR BIEN 3320 Data Science for Neural Engineer 3 Data Science for Biology and Medicine BIEN 3320 BIEN 3410 ntroduction to Bioinstrumentation and Bioimaging 3 3 BIEN 3910 Bioengineering Laboratory Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 4 BIEN 4920 6 ioengineering Capstone Design 6 Bioengineering Thesis Research BIEN 4940 Bioengineering Industrial Project 4990 Academic and Professional Development II CENG 2210 hemical and Biological Engineering Thermodynamics 3 CENG 2220 Fransport Phenomena I 3 3 3 CENG 3230 Chemical and Biological Reaction Engineering 3 3 3 ENGG 2010 ngineering Seminar Series 0 0 0 Note: LIFS 3150 OR MATH 2411 OR BIEN 3300 3-4 3150 2411 LIFS MATH 3 pplied Statistics BIEN 3300 Data Science for Molecular Engineering Technical Communication II for Chemical and Biological Engineering

Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should b

aken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits LANG 3 15 6 3 15 SCI/SENG hould be at 4000-level) Required credits for Major Required Courses and Electives 60-61 60 **BBA** in Economics School Requirements ACCT 2010 Principles of Accounting I 3 3 3 ACCT 2200 Principles of Accounting II 3 3 3 Note: ECON 2103 OR ECON 2113 3 ECON 2103 / 2113 / 2123 is a 2113 CON Microeconomics
Note: ECON 2123 OR ECON 3123 2123 3123 3 2303 Financial Management 3 3 ОМ 3 roduction to Information Systems 1021/1022P/2011/2012H aived for DDP students if the have taken and passed COMP1021 or COMP 1029P МО 2020 1 Substituted by
LIFS 3150/MATH 2411/BIEN
3300 SOM 2500 3 2600 troduction to Business Analytics BIEN 3310/3320 ISOM 2700 Operations Management 3 3 MARK 2120 Marketing Management 3 3 3 иСМТ 2010 usiness Ethics and the Individual 2 2 MGMT 2110 Organizational Behavior 3 3 3 MGMT 2130 Business Ethics and Social Responsibility 2 2 SBMT 1111 usiness Student Induction 0 Waived for DDP students 2040 Business Case Analyses 3 Waived for DDP students ABU iffective Communication in Business lote: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 3 Calculus and Linear Algebra ODP students should take MATE MATH 1003 1012 MATH Calculus IA 1013 OR MATH 1023 to satisfy ;aiculus iA ;alculus IB Accelerated Calculus (3) the requirements of both BSc HTAN HTAN 013 020 and BBA degrees Required credits for School Requirements 43-44 31 Major Requirements Major Required Courses and Electives Managerial Microeconomics CON 3024 Managerial Macroeconomics 4 ECON 3334 Introduction to Econometrics ECON 4670 Economics Research and Communication 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 1010 T&M Professional Activities T&M Case Analysis and Product Innovation TEMG 3950 3 3 3 TEMG 4950 F&M Corporate Consulting Project 3-5 4 4 Required credits for Additional Requirements University CORE CORE C3 - C12 U CORE - Others 30 30 U CORE - English Language CORE C1 & C2 Sub-total for University CORE 36 36 16 18 18 18 19 19 17 16 19 176## << Declaration of BEng major << Declaration of BBA major Notes

Remarks on course(s):

School:

School of Engineering and School of Business Management

<sup>()</sup> indicates the reuse of the same course to fulfill more than one requirement.

<sup>--</sup> denotes the course/requirement is either waived or substitued

<sup>##</sup> To graduate, students should complete all requirements specified for DDP