CEMARK 2024-25 Intake (Via DDP PBA)

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

<< Declaration of declaration of SEng major BBA major

School: School of Engineering and School of Business Management Student's Pathway Dual Degree Program (BEng in Chemical Engineering and BBA in Marketing) Remarks Offering Dept Course Code Course Title / Courses List course code prefix) BEng in Chemical Engineering Major Requirements Engineering Fundamental Courses Note: COMP1021 OR COMP1022P OR COMP2011 OR COMP2012H Students should take COMP1021 1022F 2011 Introduction to Computing with Java
Programming with C++ ISOM 2010 and to waive ISOM 202 COMP 2012F Honors 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 HEM 3 4-7 (MATH 1014 OR MATH 1024)] OR [MATH 1020] MATH 1012 1013 1014 1020 1023 MATH Calculus IB 3 3 6 Calculus II Accelerated Calculus Accelerated Calcu Honors Calculus I Honors Calculus II MATH 2011 Introduction to Multivariable Calculus 3 3 Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus 1112 1312 3 3 PHYS Required credits for Engineering Fundamental Courses 16-21 18 Major Required Courses and Electives Note: CENG1000 OR CENG1500 CENG Introduction to Chemical and Biological Engineering 3 1000 CENG 500 A First Course on Materials Science and Applications
Note: CENG1600 OR CENG1700 OR BIEN1010 Biotechnology and Its Business Opportunities Introduction to Environmental Engineering CENG 1600 3 3 3 CENG 1700 BIEN CENG Introduction to Biomedical Engineering 0 0 1010 Academic and Professional Development I CENG Industrial Training 0 CENG 2110 Process and Product Design Principles 3 3 Chemical and Biological Engineering Thermodynamics ENG 2210 3 2220 Transport Phenomena I 3 3 3 CENG Modeling for Chemical and Biological Engineering ENG 2310 3 CENG 3110 Process Dynamics and Control 3 3 ENG 3150 Integrated Chemical Process & Product Design 3210 3 3 CENG ENG 3220 Heat and Mass Transfer 3 3 3230 Chemical and Biological Reaction Engineering 3 3 CENG Data Science for Molecular Engineering ENG 3330 Chemical and Environment Engineering Laboratory 3950 4 4 CENG Academic and Professional Development II

Note: CENG 4920 OR CENG 4930 OR CENG 4940 (Students) CENG 4020 0 Chemical Engineering Capstone Design
Chemical Engineering Thesis Research 4920 4930 4940 CENG Chemical Engineering Industrial Project Engineering Seminar Series ENGG 2010 0 0 0 0 0 0 CHEM 1052 Laboratory for General Chemistry B 1 1 1 Fundamentals of Organic Chemistry CHEM 2111 3 3 3 Fundamental Organic Chemistry Laboratory
Note: BIEN2410 OR BIEN2610 OR LIFS1901 CHEM 2155 1 1 2410 2610 BIEN Cellular and Systems Physiology for Engineers 3 3 Chemical Biology for Engineers BIEN LIFS General Biology I CENG/CHEM 3 9 Required credits for Major Requirements Courses and Electives 65 65 **BBA** in Marketing School Requirements ACCT 2010 Principles of Accounting I 3 3 ACCT 2200 Principles of Accounting II 3 3 3 Note: ECON 2103 OR ECON ECON 2103 Principles of Microeconomics ECON 2113 Microeconomics Note: ECON 2123 OR ECON 3123 2123 ECON 3 3 CON 3123 Macroeconomic Theory I 2303 Financial Managemen Substituted by COMP 0 3 ISOM 2010 Introduction to Information Systems 1021/1022P/2011/2012H
Vaived for DDP students if they har taken and passed COMP1021 or 0 2020 1 ISOM Coding for Business COMP 1029P SOM 2500 3 3 3 **Business Statistics** MOS 2600 Introduction to Business Analytics 1 MOS 2700 3 Operations Management 3 MARK 2120 is a major pre-requisit /ARK 2120 Marketing Management 3 3 **IGMT** 2010 Business Ethics and the Individual 2 2 2110 /IGMT Organizational Behavior 3 3 3 2 /IGMT 2130 2 Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BB/ Calculus and Linear Algebra Calculus IA Calculus IB HTAN HTAN HTAN 1003 1012 1013 (3) Accelerated Calculus degrees MATH Honors Calculus I Required credits for School Requirements 39-40 32 **Major Requirements** Major Required Courses and Electives MARK 3220 Marketing Research 4 4 /ARK 3420 Consumer Behavior 4 4 Strategic Marketing 4 4210 MARK MARK 3000-level or above Electives (Any 3 courses of the subject and level as specified) 4 4 12 Required credits for Major Required Courses and Electives Additional Requirements Requirements for Dual Degree Program Required Courses EMG 1010 T&M Professional Activities 0 TEMG 3950 T&M Case Analysis and Product Innovation 3 T&M Corporate Consulting Project TEMG 4950 3-5 4 Required credits for Additional Requirements 7 **University CORE** U CORE - Others 21 21 U CORE - English Language ORE C1 & C2 6 6 MAW Behavioral Foundations of University Education: Habits, Mindsets, and Wellness Sub-total for University CORE 30 30 20 18 17 17 << Declaration of << Declaration of

Notes

( ) 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.

\*\*Remarks on course(s):

BEng major

BBA major

<sup>&</sup>gt;> 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.