The Hong Kong University of Science and Technology
**Interdisciplinary Programs Office**
An Example on Student's Pathway (as of July 22, 2022)

**COGBUS** 2022-23 Intake
(Via DDP PBA)

<< *Declaration of* BEng major   << *Declaration of* BBA major

| School: | School of Engineering and School of Business Management | | | Student's Pathway | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Program:** | **Dual Degree Program (BEng in Computer Science and BBA in Global Business)** | | | | | | | | | | | | | | |
| Course Offering Dept. (course code prefix) | Course Code | Course Title / Courses List | Credits | Year 1 Fall | Year 1 Spring | Year 2 Fall | Year 2 Spring | Year 3 Fall | Year 3 Spring | Year 4 Fall | Year 4 Spring | Year 5 Fall | Year 5 Spring | Sub-total | **Remarks** |

## BEng in Computer Science
### Major Requirements
#### Engineering Fundamental Courses

| Dept | Code | Course Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMP / COMP | 1021 / 1022P | Note: COMP1021 OR COMP1022P; Introduction to Computer Science / Introduction to Computing with Java | 3 / 3 | 3 | | | | | | | | | | 3 | Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020 |
| CHEM / CHEM / LIFS / PHYS / PHYS / PHYS | 1008 / 1020 / 1901 / 1101 / 1112 / 1312 | Note: CHEM1008 OR CHEM1020 OR LIFS1901 OR PHYS1101 OR PHYS1112 OR PHYS1312; Introductory Chemistry / General Chemistry I / General Biology I / Introductory Physics / General Physics I with Calculus / Honors General Physics I | 3 / 3 / 3 / 3 / 3 / 3 | 3 | | | | | | | | | | 3 | |
| LANG | 2030 | Technical Communication I | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Waived for DDP students |
| MATH / MATH / MATH / MATH / MATH / MATH | 1012 / 1013 / 1014 / 1020 / 1023 / 1024 | Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]; Calculus IA / Calculus IB / Calculus II / Accelerated Calculus / Honors Calculus I / Honors Calculus II | 4-7 (4/3/3/4/3/3) | 3 | 3 | | | | | | | | | 6 | |
| MATH | 2111 | Matrix Algebra and Applications | 3 | | | 3 | | | | | | | | 3 | |
| SENG | | Engineering Introduction course (COMP students may also use COMP1022P to fulfill this requirement) | 3-4 | (3) | | | | | | | | | | 0 | |
| | | **Required credits for Engineering Fundamental Courses** | 19-23 | | | | | | | | | | | 15 | |

#### Major Required Courses and Electives

| Dept | Code | Course Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMP / COMP / COMP | 2011 / 2012 / 2012H | Note: (COMP2011 AND COMP2012) OR COMP2012H; Programming with C++ / Object-Oriented Programming and Data Structures / Honors Object-Oriented Programming and Data Structures | 5-8 (4/4/5) | | | 4 | 4 | | | | | | | 8 | |
| COMP | 2611 | Computer Organization | 4 | | | | | | 4 | | | | | 4 | |
| COMP / COMP | 2711 / 2711H | Note: COMP2711 OR COMP2711H; Discrete Mathematical Tools for Computer Science / Honors Discrete Mathematical Tools for Computer Science | 4 / 4 | | | 4 | | | | | | | | 4 | |
| COMP / COMP | 3111 / 3111H | Note: COMP3111 OR COMP3111H; Software Engineering / Honors Software Engineering | 4 / 4 | | | | | 4 | | | | | | 4 | |
| COMP | 3511 | Operating Systems | 3 | | | | | | | 3 | | | | 3 | |
| COMP / COMP | 3711 / 3711H | Note: COMP3711 OR COMP3711H; Design and Analysis of Algorithms / Honors Design and Analysis of Algorithms | 3-4 (3/4) | | | | | 3 | | | | | | 3 | |
| COMP | 4900 | Note: Students are required to take COMP4900 for every regular term in which they are in residency at HKUST with major in COMP Academic and Professional Development | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| COMP / COMP / COMP / COMP | 1991 / 4981 / 4981H / 4910 | Note: [COMP 1991 AND (COMP 4981 OR COMP 4981H)] OR [COMP 4910]; Industrial Experience / Final Year Project / Final Year Thesis / Co-op FYP Program | 6 (0/6/6/6) | | | | | | | | 3 | 3 | | 6 | |
| ELEC / ELEC / IEDA / IEDA / MATH / MATH / MATH | 2600 / 2600H / 2520 / 2540 / 2411 / 2421 / 2431 | Note: ELEC 2600 OR ELEC 2600H OR IEDA 2520 OR IEDA 2540 OR MATH 2411 OR MATH 2421 OR MATH 2431; Probability and Random Processes in Engineering / Honors Probability and Random Processes in Engineering / Probability for Engineers / Statistics for Engineers / Applied Statistics / Probability / Honors Probability | 3-4 (4/4/3/4/4/4/4) | | | 4 | | | | | | | | 4 | Students should take MATH 2411 which will also be used to substitute ISOM 2500. |
| ENGG | 2010 | Engineering Seminar Series | 0 | | 0 | 0 | 0 | 0 | | | | | | 0 | |
| LANG | 4030 | Technical Communication II for CSE, CPEG & DSCT | 3 | | | | | | | | | 3 | | 3 | |
| COMP | | COMP Electives (5 courses from the specified elective list, of which at least 3 courses should be taken from 1 area and at least 2 courses outside that area (including course(s) in the Courses Without Associated Area). Students may use at most one course under Deep Learning Applications (COMP 4471 and COMP 5223) to count towards this elective requirement.) | 15 | | | | | | | 3 | 6 | 3 | 3 | 15 | |
| COMP | | COMP 2000-level or above Elective (Any course(s) of the subject and level as specified) | 3 | | | | | | | | | | 3 | 3 | |
| | | **Required credits for Major Requirements Courses and Electives** | 53-58 | | | | | | | | | | | 57 | |

## BBA in Global Business
### School Requirements

| Dept | Code | Course Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACCT | 2010 | Principles of Accounting I | 3 | | | 3 | | | | | | | | 3 | |
| ACCT | 2200 | Principles of Accounting II | 3 | | | | | 3 | | | | | | 3 | |
| ECON / ECON | 2103 / 2113 | Note: ECON 2103 OR ECON 2113; Principles of Microeconomics / Microeconomics | 3 / 3 | | | | 3 | | | | | | | 3 | |
| ECON / ECON | 2123 / 3123 | Note: ECON 2123 OR ECON 3123; Macroeconomics / Macroeconomic Theory I | 3 / 3 | | | | 3 | | | | | | | 3 | |
| FINA | 2303 | Financial Management | 3 | | | | 3 | | | | | | | 3 | |
| ISOM | 2010 | Introduction to Information Systems | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Substituted by COMP 1021/ 1022P/ 2011/ 2012H |
| ISOM | 2020 | Coding for Business | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P |
| ISOM | 2500 | Business Statistics | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Substituted by MATH 2411 |
| ISOM | 2600 | Introduction to Business Analytics | 1 | | | | 1 | | | | | | | 1 | |
| ISOM | 2700 | Operations Management | 3 | | | | | | 3 | | | | | 3 | |
| MARK | 2120 | Marketing Management | 3 | | 3 | | | | | | | | | 3 | |
| MGMT | 2010 | Business Ethics and the Individual | 2 | | | 2 | | | | | | | | 2 | |
| MGMT | 2110 | Organizational Behavior | 3 | | 3 | | | | | | | | | 3 | |
| MGMT | 2130 | Business Ethics and Social Responsibility | 2 | | | | 2 | | | | | | | 2 | |
| LABU | 2040 | Business Case Analyses | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 | Waived for DDP students |
| LABU | 2060 | Effective Communication in Business | 3 | | | | | | 3 | | | | | 3 | |
| MATH / MATH / MATH / MATH / MATH | 1003 / 1012 / 1013 / 1020 / 1023 | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023; Calculus and Linear Algebra / Calculus IA / Calculus IB / Accelerated Calculus / Honors Calculus I | 3-4 (3/4/3/4/3) | (3) | | | | | | | | | | 0 | DDP students should take MATH 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 | | | | | | | | | | | 32 | |

### Major Requirements
#### Major Required Courses and Electives

| Dept | Code | Course Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GBUS | 1000 | Global Leadership Development | 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| GBUS | 2010 | Global Business Analysis | 3 | | | | | | 3 | | | | | 3 | |
| GBUS | 2020 | Public Service Project | 1 | | | | | | 1 | [1] | | | | 1 | |
| GBUS/ISOM / GBUS / ISOM | 3030 / 2040 | Note: GBUS 3030 OR ISOM2040; Global Business Case Studies / Business Simulation and Strategic Decisions | 3-4 (4/3) | | | | | | | 4 | [3] | | | 4 | |
| GBUS | 4910 | Capstone Project | 4 | | | | | | | | 4 | [4] | | 4 | |
| GBUS | | Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill requirements of an additional major in SBM may not be counted towards this elective requirement.) | 15 | | | | | | | | 6 | 3 | 6 | 15 | |
| | | **Required credits for Major Required Courses and Electives** | 25-28 | | | | | | | | | | | 27 | |

## Additional Requirements
### Requirements for Dual Degree Program
#### Required Courses

| Dept | Code | Course Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEMG | 1010 | T&M Professional Activities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| TEMG | 3950 | T&M Case Analysis and Product Innovation | 3 | | 3 | | | | | | | | | 3 | |
| TEMG | 4950 | T&M Corporate Consulting Project | 3-5 | | | | | | | 4 | | | | 4 | |
| | | **Required credits for Additional Requirements** | 7 | | | | | | | | | | | 7 | |

## University CORE

| Dept | Code | Course Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CORE | C3 - C9 | U CORE - Others | 21 | 3 | | | 3 | 6 | | 3 | 3 | 3 | | 21 | |
| CORE | C1 & C2 | U CORE - English Language | 6 | 3 | 3 | | | | | | | | | 6 | |
| CORE | 1905 | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness | 3 | 0 | 3 | | | | | | | | | 3 | |
| | | **Sub-total for University CORE** | 30 | | | | | | | | | | | 30 | |

| Term load (excl. free credits) | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S |
|---|---|---|---|---|---|---|---|---|---|---|
| | 15 | 18 | 20 | 16 | 16 | 17 | 17 | 15 | 19 | 15 |

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<< *Declaration of* BEng major   << *Declaration of* BBA major

Notes:
( ) indicates the reuse of the same course to fulfill more than one requirement.
--- denotes the course/requirement is either waived or substituted
## To graduate, students should complete all requirements as specified for DDP.
**Remarks on course(s):

>> 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.