# The Hong Kong University of Science and Technology
## Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of August 3, 2023)

**CPMGMT** 2023-24 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 Engineering and BBA in Management)** | | | | | | | | | | | | | |
| 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 Engineering
### Major Requirements
#### Engineering Fundamental Courses

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMP | 1021 | Note: COMP1021 OR COMP1022P / Introduction to Computer Science | 3 | 3 | | | | | | | | | | 3 | Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020 |
| COMP | 1022P | Introduction to Computing with Java | 3 | | | | | | | | | | | | |
| LANG | 2030 | Technical Communication I | 3 | - | - | - | - | - | - | - | - | | | 0 | Waived for DDP students |
| | | Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] | 4-7 | | | | | | | | | | | | |
| MATH | 1012 | Calculus IA | 4 | 3 | 3 | | | | | | | | | 6 | |
| MATH | 1013 | Calculus IB | 3 | | | | | | | | | | | | |
| MATH | 1014 | Calculus II | 3 | | | | | | | | | | | | |
| MATH | 1020 | Accelerated Calculus | 4 | | | | | | | | | | | | |
| MATH | 1023 | Honors Calculus I | 3 | | | | | | | | | | | | |
| MATH | 1024 | Honors Calculus II | 3 | | | | | | | | | | | | |
| MATH | 2011 | Introduction to Multivariable Calculus | 3 | | | | | 3 | | | | | | 3 | |
| MATH | 2111 | Matrix Algebra and Applications | 3 | | | | | 3 | | | | | | 3 | |
| PHYS | 1112 | Note: PHYS1112 OR PHYS1312 / General Physics I with Calculus | 3 | 3 | | | | | | | | | | 3 | |
| PHYS | 1312 | Honors General Physics I | 3 | | | | | | | | | | | | |
| PHYS | 1114 | Note: PHYS1114 OR PHYS1314 / General Physics II | 3 | | | | | | 3 | | | | | 3 | |
| PHYS | 1314 | Honors General Physics II | 3 | | | | | | | | | | | | |
| SENG | | Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.) | 3-4 | (3) | | | | | | | | | | 0 | |
| | | **Required credits for Engineering Fundamental Courses** | 25-29 | | | | | | | | | | | 21 | |

#### Major Required Courses and Electives

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CPEG | 2930 | Academic and Professional Development I | 0 | | | 0 | 0 | | | | | | | 0 | |
| CPEG | 3930 | Academic and Professional Development II | 0 | | | | | 0 | 0 | | | | | 0 | |
| COMP | 2011 | Note: (COMP2011 AND COMP2012) OR COMP2012H / Programming with C++ | 5-8 / 4 | | 4 | | 4 | | | | | | | 8 | |
| COMP | 2012 | Object-Oriented Programming and Data Structures | 4 | | | | | | | | | | | | |
| COMP | 2012H | Honors Object-Oriented Programming and Data Structures | 5 | | | | | | | | | | | | |
| COMP | 2611 | Note: COMP2611 OR ELEC2350 / Computer Organization | 4 | | | 4 | | | | | | | | 4 | |
| ELEC | 2350 | Introduction to Computer Organization and Design | 4 | | | | | | | | | | | | |
| COMP | 2711 | Note: COMP2711 OR COMP2711H OR ELEC 2600 / Discrete Mathematical Tools for Computer Science | 4 | | | | | | 4 | | | | | 4 | |
| COMP | 2711H | Honors Discrete Mathematical Tools for Computer Science | 4 | | | | | | | | | | | | |
| ELEC | 2600 | Probability and Random Processes in Engineering | 4 | | | | | | | | | | | | |
| COMP | 3511 | Operating Systems | 3 | | | | | | | 3 | | | | 3 | |
| | | Note: [CPEG 1971 AND (CPEG 4901 OR CPEG 4902 OR CPEG 4911 OR CPEG 4912)] OR [CPEG 4910] (Students taking the Research Option must take either CPEG 4902 or CPEG 4912) | 6 | | | | | | | | | | | | |
| CPEG | 1971 | Industrial Experience | 0 | | | | | | | | 3 | 3 | | 6 | |
| CPEG | 4901 | Computer Engineering Final Year Project in COMP | 6 | | | | | | | | | | | | |
| CPEG | 4902 | Computer Engineering Final Year Thesis in COMP | 6 | | | | | | | | | | | | |
| CPEG | 4911 | Computer Engineering Final Year Project in ELEC | 6 | | | | | | | | | | | | |
| CPEG | 4912 | Computer Engineering Final Year Thesis in ELEC | 6 | | | | | | | | | | | | |
| CPEG | 4910 | Co-op Program | 6 | | | | | | | | | | | | |
| ELEC | 1100 | Introduction to Electro-Robot Design | 4 | | | 4 | | | | | | | | 4 | |
| ELEC | 2100 | Signals and Systems | 4 | | | | 4 | | | | | | | 4 | |
| ELEC | 2400 | Electronic Circuits | 4 | | | | 4 | 4 | | | | | | 8 | |
| ELEC | 3300 | Introduction to Embedded Systems | 4 | | | | | | | 4 | | | | 4 | |
| ENGG | 2010 | Engineering Seminar Series | 0 | | | 0 | 0 | 0 | 0 | | | | | 0 | |
| LANG | 4030 | Note: LANG4030 OR LANG4031 / Technical Communication II for CSE, CPEG & DSCT | 3 | | | | | | | | 3 | | | 3 | |
| LANG | 4031 | Technical Communication II for ECE & CPEG | 3 | | | | | | | | | | | | |
| COMP/ELEC | | Area Courses (At least 2 courses should be taken from one single area and at least 2 courses outside that area (including course(s) in the Courses without Associated Area. Courses taken to satisfy CPEG Restricted Elective requirement may not be counted under Area Courses.) | 12 | | | 3 | | | | | 3 | 3 | 3 | 12 | |
| COMP/ELEC | | COMP/ELEC 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** | 59-63 | | | | | | | | | | | 63 | |

## BBA in Management
### School Requirements

| Dept | Code | 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 | 2103 | Note: ECON 2103 OR ECON 2113 / Principles of Microeconomics | 3 | | 3 | | | | | | | | | 3 | |
| ECON | 2113 | Microeconomics | 3 | | | | | | | | | | | | |
| ECON | 2123 | Note: ECON 2123 OR ECON 3123 / Macroeconomics | 3 | | | | | 3 | | | | | | 3 | |
| ECON | 3123 | Macroeconomic Theory I | 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 | | | 3 | | | | | | | | 3 | |
| 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 2110 is a major pre-requisite |
| MGMT | 2130 | Business Ethics and Social Responsibility | 2 | | | | | | | | | | 2 | 2 | |
| LANG | 2061 | Note: LANG 2061 OR 2062 OR 3060 / Professional Writing for the Workplace | 3 | | | | | | | | 3 | | | 3 | Non DDP-ECON students take ONLY a 3-credit of SBM-specific English course, in which they can choose from one of the three LANG courses (LANG 2061, LANG 2062, or LANG 3060). |
| LANG | 2062 | Professional Speaking for the Workplace | 3 | | | | | | | | | | | | |
| LANG | 3060 | Advanced Academic Writing | 3 | | | | | | | | | | | | |
| MATH | 1003 | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 / Calculus and Linear Algebra | 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 |
| MATH | 1012 | Calculus IA | 4 | | | | | | | | | | | | |
| MATH | 1013 | Calculus IB | 3 | | | | | | | | | | | | |
| MATH | 1020 | Accelerated Calculus | 4 | | | | | | | | | | | | |
| MATH | 1023 | Honors Calculus I | 3 | | | | | | | | | | | | |
| | | **Required credits for School Requirements** | 43-44 | | | | | | | | | | | 35 | |

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

| Dept | Code | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MGMT | 3110 | Note: MGMT 3110 OR MGMT 3120 (For students in the Consulting Option, they will use MGMT 3110 to fulfill the Option Requirements and should take MGMT 3120 to fulfill this requirement.) / Human Resources Management | 4 | | | | | 4 | | | | | | 4 | Students in the Consulting Option must take MGMT 3120 |
| MGMT | 3120 | Managerial Leadership | 4 | | | | | | | | | | | | |
| MGMT | 3130 | Note: MGMT 3130 OR MGMT 3140 (Students in the Consulting Option must take MGMT 3140 to fulfill this requirement.) / Judgement and Decision Making in Organizations | 4 | | | | | | 4 | | | | | 4 | Students in the Consulting Option must take MGMT 3140 |
| MGMT | 3140 | Negotiation | 4 | | | | | | | | | | | | |
| MGMT | 4210 | Note: MGMT 4210 OR MGMT 4220 (Students in the Consulting Option or in the Corporate Social Responsibility and Sustainability Option must take MGMT 4210 to fulfill this requirement.) / Corporate Strategy | 3-4 / 3 | | | | | | 3 | | | | | 3 | Students in the Consulting Option must take MGMT 4210 / Students in the CSR Option must take MGMT 4210 |
| MGMT | 4220 | Entrepreneurship and Innovation | 4 | | | | | | | | | | | | |
| MGMT | | MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified. Courses taken as Option Required Courses may not be counted towards the elective requirement.) | 9 | | | | | | | | 3 | 3 | 3 | 9 | Students in the Consulting Option are recommended to take MGMT 4220 and a new course in Simulating Strategy to fulfill the major elective requirement |
| | | **Required credits for Major Required Courses and Electives** | 20-21 | | | | | | | | | | | 20 | |

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

| Dept | Code | 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 | Title | Credits | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub-total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CORE | C3 - C9 | U CORE - Others | 21 | | | 3 | | | | 6 | 3 | 3 | 6 | 21 | |
| CORE | C1 & C2 | U CORE - English Language | 6 | 3 | 3 | | | | | | | | | 6 | |
| HMAW | 1905 | Behavioral Foundations of University Education: Habits, Mindsets, and Wellness | 3 | 1 | 2 | | | | | | | | | 3 | |
| | | **Sub-total for University CORE** | 30 | | | | | | | | | | | 30 | |

| Term load (excl. free credits) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 16 | 17 | 17 | 18 | 21 | 17 | 17 | 18 | 18 | 17 | 176## | |

<< 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.