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

**EEECON** 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 Electronic Engineering and BBA in Economics)** | | | | | | | | | | | | | |
| 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 Electronic Engineering
### Major Requirements
#### Engineering Fundamental Courses

| Dept | Code | Title | Cr | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Note: ELEC2600 OR ELEC2600H) OR MATH2011 OR MATH2111 OR MATH2350 OR MATH 2351 (3 courses out of 6) | 9-10 | | | | | | | | | | | | |
| ELEC | 2600 | Probability and Random Processes in Engineering | 4 | | | | | | | | | | | | |
| ELEC | 2600H | Honors Probability and Random Processes in Engineering | 4 | 3 | | 3 | | 3 | | | | | | 9 | |
| MATH | 2011 | Introduction to Multivariable Calculus | 3 | | | | | | | | | | | | |
| MATH | 2111 | Matrix Algebra and Applications | 3 | | | | | | | | | | | | |
| MATH | 2350 | Applied Linear Algebra and Differential Equations | 3 | | | | | | | | | | | | |
| MATH | 2351 | Introduction to Differential Equations | 3 | | | | | | | | | | | | |
| | | Note: COMP1021 OR COMP1022P | | | | | | | | | | | | | |
| COMP | 1021 | 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 | | | | | | | | | | | | |
| | | Note: COMP 2011 OR COMP 2012H | 4-5 | | | | | | | | | | | | |
| COMP | 2011 | Programming with C++ | 4 | | | 4 | | | | | | | | 4 | |
| COMP | 2012H | Honors Object-Oriented Programming and Data Structures | 5 | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | |
| MATH | 1013 | Calculus IB | 3 | 3 | 3 | | | | | | | | | 6 | |
| MATH | 1014 | Calculus II | 3 | | | | | | | | | | | | |
| MATH | 1020 | Accelerated Calculus | 4 | | | | | | | | | | | | |
| MATH | 1023 | Honors Calculus I | 3 | | | | | | | | | | | | |
| MATH | 1024 | Honors Calculus II | 3 | | | | | | | | | | | | |
| | | Note: PHYS1112 OR PHYS1312 | | | | | | | | | | | | | |
| PHYS | 1112 | General Physics I with Calculus | 3 | 3 | | | | | | | | | | 3 | |
| PHYS | 1312 | Honors General Physics I | 3 | | | | | | | | | | | | |
| | | Note: PHYS1114 OR PHYS1314 | | | | | | | | | | | | | |
| PHYS | 1114 | 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** | 32-38 | | | | | | | | | | | 28 | |

#### Major Required Courses and Electives

| Dept | Code | Title | Cr | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELEC | 1100 | Introduction to Electro-Robot Design | 4 | | | 4 | | | | | | | | 4 | |
| ELEC | 1200 | A System View of Communications: from Signals to Packets | 4 | | | | 4 | | | | | | | 4 | |
| | | Note: ELEC2100 OR ELEC2100H | | | | | | | | | | | | | |
| ELEC | 2100 | Signals and Systems | 4 | | | | | | | 4 | | | | 4 | |
| ELEC | 2100H | Honors Signals and Systems | 4 | | | | | | | | | | | | |
| ELEC | 2350 | Introduction to Computer Organization and Design | 4 | | | | | | | 4 | | | | 4 | |
| ELEC | 2400 | Electronic Circuits | 4 | | | | | | 4 | | | | | 4 | |
| ELEC | 2910 | Academic and Professional Development I | 0 | | | 0 | 0 | | | | | | | 0 | |
| ELEC | 3910 | Academic and Professional Development II | 0 | | | | | 0 | 0 | | | | | 0 | |
| | | Note: [ELEC 2991 AND (ELEC 4900 OR ELEC 4901)] OR [ELEC 4910] (Students taking the Research Option must take ELEC 4901) | 6 | | | | | | | | | | | | |
| ELEC | 4900 | Final Year Design Project | 6 | | | | | | | | | 3 | 3 | 6 | |
| ELEC | 4901 | Final Year Thesis | 6 | | | | | | | | | | | | |
| ELEC | 2991 | Industrial Experience (Electronic Engineering) | 0 | | | | | | | | | | | | |
| ELEC | 4910 | Co-op Program | 6 | | | | | | | | | | | | |
| ENGG | 2010 | Engineering Seminar Series | 0 | | | 0 | 0 | 0 | 0 | | | | | 0 | |
| LANG | 4031 | Technical Communication II for ECE & CPEG | 3 | | | | | | | | | 3 | | 3 | |
| ELEC | | ELEC 3000-level or above Electives (Courses of the subject and level as specified, out of which at least 2 courses must be at 4000-level. ELEC 4940 cannot be used to count towards this elective requirement) | 21 | | | | 3 | | 3 | | 6 | 3 | 6 | 21 | |
| | | **Required credits for Major Requirements Courses and Electives** | 50 | | | | | | | | | | | 50 | |

## BBA in Economics
### School Requirements

| Dept | Code | Title | Cr | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACCT | 2010 | Principles of Accounting I | 3 | 3 | | | | | | | | | | 3 | |
| ACCT | 2200 | Principles of Accounting II | 3 | | | | | | 3 | | | | | 3 | |
| | | Note: ECON2103 OR ECON2113 | | | | | | | | | | | | | |
| ECON | 2103 | Principles of Microeconomics | 3 | | | 3 | | | | | | | | 3 | ECON 2103 / 2113 / 2123 is a major pre-requisite |
| ECON | 2113 | Microeconomics | 3 | | | | | | | | | | | | |
| | | Note: ECON2123 OR ECON3123 | | | | | | | | | | | | | |
| ECON | 2123 | 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 COMP 1021 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 | 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 | |
| | | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 | 3-4 | | | | | | | | | | | | 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 | 1003 | Calculus and Linear Algebra | 3 | (3) | | | | | | | | | | 0 | |
| 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 | Cr | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECON | 3014 | Managerial Microeconomics | 4 | | | | | 4 | | | | | | 4 | |
| ECON | 3024 | Managerial Macroeconomics | 4 | | | | | | 4 | | | | | 4 | |
| ECON | 3334 | Introduction to Econometrics | 4 | | | | | | | 4 | | | | 4 | |
| ECON | 4670 | Economics Research and Communication | 0 | | | | | | | | 0 | | | 0 | |
| ECON | | ECON 4000-level Electives (Any 3 courses of the subject and level as specified) | 11 | | | | | | | | 4 | 4 | 3 | 11 | |
| | | **Required credits for Major Required Courses and Electives** | 23 | | | | | | | | | | | 23 | |

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

| Dept | Code | Title | Cr | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub | 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 | Cr | Y1F | Y1S | Y2F | Y2S | Y3F | Y3S | Y4F | Y4S | Y5F | Y5S | Sub | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CORE | C3 - C9 | U CORE - Others | 21 | | | | 3 | | | 6 | 6 | 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) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 18 | 17 | 19 | 19 | 20 | 18 | 16 | 16 | 15 | |
| | | | | **173##** | | | | | | |

<< *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.*