

!!<< Declaration of major

| School: | | School of Engineering and School of Business Management | | Student's Pathways (i.e. Study Pattern) | | | | | | | | | | | Remarks | | |
|---|------|--|-------|---|-------|---------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|---|
| Department: | | Dual Degree Program (BEng in Civil Engineering and BBA in General Business Management) | | Pathway 1 | | | | | | | | | | | | | |
| Program: | | | | Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS) | | | | | | | | | | | | | |
| 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 |
| BEng in Civil Engineering | | | | | | | | | | | | | | | | | |
| Major Requirements | | | | | | | | | | | | | | | | | |
| Engineering Fundamental Courses | | | | | | | | | | | | | | | | | |
| COMP | COMP | 1021 | 1021P | Note: COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011 | 3-4 | | 3 | | | | | | | | | 3 | This course will also be used to substitute ISOM 2010 |
| COMP | COMP | 1022P | 1022Q | Introduction to Computing with Java | 3 | | | | | | | | | | | | |
| COMP | COMP | 1022Q | 2011 | Introduction to Computing with Excel VBA | 3 | | | | | | | | | | | | |
| COMP | COMP | 2011 | | Introduction to Object-oriented Programming | 4 | | | | | | | | | | | | |
| ENGG | | 1010 | | Academic Orientation | 0 | 0 | 0 | | | | | | | | | | 0 |
| CHEM | CHEM | 1010 | | Note: CHEM 1010 OR CHEM 1020 | 2-3 | | | | | | | | | | | | 3 |
| CHEM | CHEM | 1020 | | General Chemistry IA | 3 | | 3 | | | | | | | | | | 3 |
| CHEM | CHEM | 1020 | | General Chemistry IB | 2 | | | | | | | | | | | | 3 |
| LANG | | 2030 | | Technical Communication I | 3 | | | | | 3 | | | | | | | 3 |
| MATH | MATH | 1012 | 1013 | Note: (MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024) OR (MATH 1020) | 4-7 | | | | | | | | | | | | 6 |
| MATH | MATH | 1013 | 1014 | Calculus IA | 4 | | | | | | | | | | | | 3 |
| MATH | MATH | 1014 | 1020 | Calculus IB | 3 | | 3 | | | | | | | | | | 3 |
| MATH | MATH | 1020 | 1023 | Accelerated Calculus | 4 | | | | | | | | | | | | 3 |
| MATH | MATH | 1023 | 1024 | Honors Calculus I | 3 | | | | | | | | | | | | 3 |
| MATH | MATH | 1024 | | Honors Calculus II | 3 | | | | | | | | | | | | 3 |
| MATH | | 2011 | | Introduction to Multivariable Calculus | 3 | | | | | 3 | | | | | | | 3 |
| MATH | | 2350 | | Applied Linear Algebra and Differential Equations | 3 | | | | | 3 | | | | | | | 3 |
| PHYS | PHYS | 1112 | 1312 | Note: PHYS 1112 OR PHYS 1312 | 3 | | | | | | | | | | | | 3 |
| PHYS | PHYS | 1312 | | General Physics I with Calculus | 3 | | 3 | | | | | | | | | | 3 |
| PHYS | PHYS | 1312 | | Honors General Physics I | 3 | | | | | | | | | | | | 3 |
| Required credits for Engineering Fundamental Courses | | | | | 21-26 | | | | | | | | | | | | 24 |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | | |
| CIVL | | 1010 | | Academic Professional Development I | 0 | | | 0 | 0 | | | | | | | | 0 |
| CIVL | | 1100 | | Discovering Civil and Environmental Engineering | 3 | | 3 | | | | | | | | | | 3 |
| CIVL | | 2010 | | Academic Professional Development II | 0 | | | | | 0 | 0 | | | | | | 0 |
| CIVL | | 2020 | | Industrial and BIM Training | 0 | | | 0* | 0 | | | | | | | | 0 |
| CIVL | | 2110 | | Statics | 3 | | | 3 | | | | | | | | | 3 |
| CIVL | | 2120 | | Mechanics of Materials | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 2160 | | Modeling Systems with Uncertainties | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 2170 | | Infrastructure Systems Engineering and Management | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 2410 | | Environmental Assessment and Management | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 2510 | | Fluid Mechanics | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 2810 | | Construction Materials | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 3010 | | Academic Professional Development III | 0 | | | | | | | 0 | 0 | | | | 0 |
| CIVL | | 3020 | | Internship Training | 0 | | | | | | | 0* | | | | | 0 |
| CIVL | | 3210 | | Introduction to Construction Management | 3 | | | | | | | 3 | | | | | 3 |
| CIVL | | 3310 | | Structural Analysis | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 3320 | | Reinforced Concrete Design | 3 | | | | | 3 | | 3 | | | | | 3 |
| CIVL | | 3510 | | Hydrosystems Engineering | 3 | | | | | 3 | | | | | | | 3 |
| CIVL | | 3610 | | Traffic and Transportation Engineering | 3 | | | | | | 3 | | | | | | 3 |
| CIVL | | 3730 | | Fundamentals of Geotechnics | 3 | | | | | | | 3 | | | | | 3 |
| CIVL | | 3740 | | Geotechnical Analysis and Design | 3 | | | | | | | | 3 | | | | 3 |
| CIVL | | 4910 | 4920 | Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920) | 6 | | | | | | | | | | 2 | 4 | 6 |
| CIVL | | 4910 | | Civil and Environmental Engineering Final Year Project | 6 | | | | | | | | | | | | 6 |
| CIVL | | 4920 | | Civil and Environmental Engineering Final Year Thesis | 6 | | | | | | | | | | | | 6 |
| CIVL | | 4950 | | Civil Engineering Capstone Design Project | 3 | | | | | | | | | | 3 | | 3 |
| ENGG | | 2010 | | Engineering Seminar Series | 0 | | | 0 | 0 | 0 | 0 | | | | | | 0 |
| LANG | | 4033 | | Technical Communication II for Civil and Environmental Engineering | 3 | | | | | | | | | | 3 | | 3 |
| CIVL/SENG | | | | CIVL Electives (3 courses from the specified elective list) CIVL: Any CIVL courses at 4000-level or above except CIVL 4230 and CIVL 4510 SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL | 9 | | | | | | | | | 3 | 3 | 3 | 9 |
| Required credits for Major Requirements Courses and Electives | | | | | 66 | | | | | | | | | | | | 66 |
| BBA in General Business Management | | | | | | | | | | | | | | | | | |
| School Requirements | | | | | | | | | | | | | | | | | |
| 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 | 3 | | | 3 | | | | | | | | | 3 |
| ECON | | 2113 | | Principles of Microeconomics | 3 | | | | | | | | | | | | 3 |
| ECON | | 2113 | | Microeconomics | 3 | | | | | | | | | | | | 3 |
| ECON | | 2123 | | Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc ECOF must take ECON 3123) | 3 | | | | | 3 | | | | | | | 3 |
| ECON | | 3123 | | Macroeconomics | 3 | | | | | | | | | | | | 3 |
| ECON | | 3123 | | Macroeconomic Theory I | 3 | | | | | | | | | | | | 3 |
| FINA | | 2303 | | Financial Management | 3 | | | | | | 3 | | | | | | 3 |
| ISOM | | 2010 | | Introduction to Information Systems | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| ISOM | | 2500 | | Business Statistics | 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| 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 |
| SBMT | | 1111 | | Business Student Induction | 0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0 |
| LABU | | 2040 | | Business Case Analyses | 3 | | | | | | | | | | | 3 | 3 |
| LABU | | 2060 | | Effective Communication in Business | 3 | | | | | | | 3 | | | | | 3 |
| MATH | | 1003 | | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 | 3-4 | | | | | | | | | | | | 6 |
| MATH | | 1012 | | Calculus and Linear Algebra | 3 | | | | | | | | | | | | 3 |
| MATH | | 1012 | | Calculus IA | 4 | | | | | | | | | | | | 4 |
| MATH | | 1013 | | Calculus IB | 3 | | | | | | | | | | | | 3 |
| MATH | | 1020 | | Accelerated Calculus | 4 | | | | | | | | | | | | 4 |
| MATH | | 1023 | | Honors Calculus I | 3 | | | | | | | | | | | | 3 |
| Required credits for School Requirements | | | | | 43-44 | | | | | | | | | | | | 34 |
| Major Requirements | | | | | | | | | | | | | | | | | |
| Major Required Courses and Electives | | | | | | | | | | | | | | | | | |
| SB&M | | | | SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above) | 29 | | 3 | | 2 | | | 7 | 3 | 7 | 7 | | 29 |
| Required credits for Major Required Courses and Electives | | | | | 29 | | | | | | | | | | | | 29 |
| Additional Requirements | | | | | | | | | | | | | | | | | |
| Requirements for Dual Degree Program | | | | | | | | | | | | | | | | | |
| Required Courses | | | | | | | | | | | | | | | | | |
| TEMG | | 1010 | | Technology and Management Professional Activities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Required credits for Additional Requirements | | | | | 0 | | | | | | | | | | | | 0 |
| University CORE | | | | | | | | | | | | | | | | | |
| CORE | | C3 - C12 | | U CORE - Others | 30 | 6 | 3 | | 3 | | | | 6 | 9 | | 3 | 30 |
| CORE | | C1 & C2 | | U CORE - English Language | 6 | 3 | 3 | | | | | | | | | | 6 |
| Sub-total for University CORE | | | | | 36 | | | | | | | | | | | | 36 |
| Term load (excl. free credits) | | | | | | | | | | | | | | | | | |
| 18 18 18 20 20 20 18 19 20 18 20 | | | | | | | | | | | | | | | | | |
| 189## | | | | | | | | | | | | | | | | | |
| !!<< Declaration of major | | | | | | | | | | | | | | | | | |
| 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): | | | | | | | | | | | | | | | | | |