

**<< Declaration of major**

|   |  |   |                                    |  |                    |                      |                    |                      |                    |                      |                    |                      |                    |                      |                  |                |
|---|--|---|------------------------------------|--|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|------------------|----------------|
| <b>School:</b>                                    |  | <b>School of Engineering and School of Business Management</b>  |                                    | <b>Student's Pathways (i.e. Study Pattern)</b>             |                    |                      |                    |                      |                    |                      |                    |                      |                    |                      |                  |                |
| <b>Department:</b>                                |  | <b>Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in General Business Management)</b> |                                    | <b>Pathway 1</b>   |                    |                      |                    |                      |                    |                      |                    |                      |                    |                      |                  |                |
| <b>Program:</b>                                   |  | <b>Dual Degree Program (BEng in Civil and Environmental Engineering and BBA in General Business Management)</b> |                                    | <b>Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS)</b> |                    |                      |                    |                      |                    |                      |                    |                      |                    |                      |                  |                |
| <b>Course Offering Dept. (course code prefix)</b> |  | <b>Course Code</b>  | <b>Course Title / Courses List</b> | <b>Credits</b>   | <b>Year 1 Fall</b> | <b>Year 1 Spring</b> | <b>Year 2 Fall</b> | <b>Year 2 Spring</b> | <b>Year 3 Fall</b> | <b>Year 3 Spring</b> | <b>Year 4 Fall</b> | <b>Year 4 Spring</b> | <b>Year 5 Fall</b> | <b>Year 5 Spring</b> | <b>Sub-total</b> | <b>Remarks</b> |

**BEng in Civil and Environmental Engineering**

**Major Requirements**

**Engineering Fundamental Courses**

|   |       |  |   |              |   |   |   |  |   |  |  |  |  |  |  |   |
|---|-------|--|---|--------------|---|---|---|--|---|--|--|--|--|--|--|---|
| COMP  |       |  | Note: COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011                                | 3-4          |   |   |   |  |   |  |  |  |  |  |  |   |
| COMP  | 1021  |  | Introduction to Computer Science  | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| COMP  | 1022P |  | Introduction to Computing with Java   | 3            |   | 3 |   |  |   |  |  |  |  |  |  | This course will also be used to substitute ISOM 2010 |
| COMP  | 1022Q |  | Introduction to Computing with Excel VBA  | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| COMP  | 2011  |  | Introduction to Object-oriented Programming   | 4            |   |   |   |  |   |  |  |  |  |  |  |   |
| ENGG  | 1010  |  | Academic Orientation  | 0            | 0 | 0 |   |  |   |  |  |  |  |  |  |   |
| CHEM  |       |  | Note: CHEM 1010 OR CHEM 1020  |              |   |   |   |  |   |  |  |  |  |  |  |   |
| CHEM  | 1010  |  | General Chemistry IA  | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| CHEM  | 1020  |  | General Chemistry IB  | 3            |   | 3 |   |  |   |  |  |  |  |  |  |   |
| LANG  | 2030  |  | Technical Communication I   | 3            |   |   |   |  | 3 |  |  |  |  |  |  |   |
| MATH  |       |  | 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   | 4            |   | 3 | 3 |  |   |  |  |  |  |  |  | 6   |
| MATH  | 1014  |  | Calculus II   | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| MATH  | 1020  |  | Accelerated Calculus  | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| MATH  | 1023  |  | Honors Calculus I   | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| MATH  | 1024  |  | Honors Calculus II  | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| MATH  | 2011  |  | Introduction to Multivariable Calculus  | 3            |   |   |   |  |   |  |  |  |  |  |  | 3   |
| MATH  | 2350  |  | Applied Linear Algebra and Differential Equations                                       | 3            |   |   |   |  |   |  |  |  |  |  |  | 3   |
| PHYS  |       |  | Note: PHYS 1112 OR PHYS 1312  |              |   |   |   |  |   |  |  |  |  |  |  |   |
| PHYS  | 1112  |  | General Physics I with Calculus   | 3            |   |   |   |  |   |  |  |  |  |  |  |   |
| PHYS  | 1312  |  | Honors General Physics I  | 3            |   | 3 |   |  |   |  |  |  |  |  |  | 3   |
| <b>Required credits for Engineering Fundamental Courses</b> |       |  |   | <b>21-26</b> |   |   |   |  |   |  |  |  |  |  |  | <b>24</b>   |

**Major Required Courses and Electives**

|  |      |  |   |           |  |   |    |   |   |   |   |   |    |   |   |   |
|--|------|--|---|-----------|--|---|----|---|---|---|---|---|----|---|---|---|
| CIVL   | 1010 |  | Academic Professional Development I   | 0         |  |   |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 1100 |  | Discovering Civil and Environmental Engineering   | 3         |  | 3 |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 2010 |  | Academic Professional Development II  | 0         |  |   |    |   | 0 | 0 |   |   |    |   |   |   |
| CIVL   | 2020 |  | Industrial and BIM Training   | 0         |  |   | 0* | 0 |   |   |   |   |    |   |   |   |
| CIVL   | 2110 |  | Statics   | 3         |  |   |    | 3 |   |   |   |   |    |   |   |   |
| CIVL   | 2120 |  | Mechanics of Materials  | 3         |  |   |    |   | 3 |   |   |   |    |   |   |   |
| CIVL   | 2160 |  | Modeling Systems with Uncertainties   | 3         |  |   |    |   | 3 |   |   |   |    |   |   | This course will also be used to substitute ISOM 2500 |
| CIVL   | 2170 |  | Infrastructure Systems Engineering and Management   | 3         |  |   |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 2410 |  | Environmental Assessment and Management   | 3         |  |   |    |   | 3 |   |   |   |    |   |   |   |
| CIVL   | 2510 |  | Fluid Mechanics   | 3         |  |   |    |   | 3 |   |   |   |    |   |   |   |
| CIVL   | 2810 |  | Construction Materials  | 3         |  |   |    |   | 3 |   |   |   |    |   |   |   |
| CIVL   | 3010 |  | Academic Professional Development III   | 0         |  |   |    |   |   |   |   | 0 | 0  |   |   |   |
| CIVL   | 3020 |  | Internship Training   | 0         |  |   |    |   |   |   |   |   | 0* |   |   |   |
| CIVL   |      |  | Note: CIVL3210 OR CIVL3610  |           |  |   |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 3210 |  | Introduction to Construction Management   | 3         |  |   |    |   |   | 3 |   |   |    |   |   | 3   |
| CIVL   | 3610 |  | Traffic and Transportation Engineering  | 3         |  |   |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 3310 |  | Structural Analysis   | 3         |  |   |    |   | 3 |   |   |   |    |   |   | 3   |
| CIVL   | 3320 |  | Reinforced Concrete Design  | 3         |  |   |    |   |   | 3 |   |   |    |   |   | 3   |
| CIVL   | 3420 |  | Water and Wastewater Engineering  | 3         |  |   |    |   |   | 3 |   |   |    |   |   | 3   |
| CIVL   | 3510 |  | Hydrosystems Engineering  | 3         |  |   |    |   |   | 3 |   |   |    |   |   | 3   |
| CIVL   | 3730 |  | Fundamentals of Geotechnics   | 3         |  |   |    |   |   |   | 3 |   |    |   |   | 3   |
| CIVL   | 3740 |  | Geotechnical Analysis and Design  | 3         |  |   |    |   |   |   |   | 3 |    |   |   | 3   |
| CIVL   |      |  | Note: CIVL 4910 OR CIVL 4920 (Students taking the Research Option must take CIVL 4920)  | 6         |  |   |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 4910 |  | Civil and Environmental Engineering Final Year Project  | 6         |  |   |    |   |   |   |   |   |    | 2 | 4 | 6   |
| CIVL   | 4920 |  | Civil and Environmental Engineering Final Year Thesis   | 6         |  |   |    |   |   |   |   |   |    |   |   |   |
| CIVL   | 4950 |  | Civil Engineering Capstone Design Project   | 3         |  |   |    |   |   |   |   |   |    |   | 3 | 3   |
| ENGG   | 2010 |  | Engineering Seminar Series  | 0         |  |   | 0  | 0 | 0 | 0 |   |   |    |   |   |   |
| LANG   | 4033 |  | Technical Communication II for Civil and Environmental Engineering (CIVL/Environmental) Electives (3 courses from the specified elective list, of which at least 2 courses (6 credits) should be selected from the "Restricted Electives".)   | 3         |  |   |    |   |   |   |   |   |    | 3 |   | 3   |
| CIVL/SENG  |      |  | Restricted electives: at least 2 courses (6 credits)<br>CIVL: Any CIVL courses at 4000-level or above except those listed as "Restricted Electives" from the list<br>SENG: Any 3000-level or above courses offered by the Engineering School or engineering departments other than CIVL | 9         |  |   |    |   |   |   |   |   | 3  | 3 | 3 | 9   |
| <b>Required credits for Major Requirements Courses and Electives</b> |      |  |   | <b>66</b> |  |   |    |   |   |   |   |   |    |   |   | <b>66</b>   |

**BBA in General Business Management**

**School Requirements**

|   |      |  |   |              |     |     |     |     |     |     |     |     |     |     |     |           |
|---|------|--|---|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| ACCT  | 2010 |  | Principles of Accounting I  | 3            |     |     | 3   |     |     |     |     |     |     |     |     |           |
| ACCT  | 2200 |  | Principles of Accounting II   | 3            |     |     |     |     |     | 3   |     |     |     |     |     |           |
| ECON  |      |  | Note: ECON 2103 OR ECON 2113  |              |     |     |     |     |     |     |     |     |     |     |     |           |
| ECON  | 2103 |  | Principles of Microeconomics  | 3            |     |     | 3   |     |     |     |     |     |     |     |     | 3         |
| ECON  | 2113 |  | Microeconomics  | 3            |     |     |     |     |     |     |     |     |     |     |     |           |
| ECON  |      |  | Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc/EOOF must take ECON 3123) |              |     |     |     |     |     |     |     |     |     |     |     |           |
| 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         |
| 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  | 2050 |  | Effective Communication in Business   | 3            |     |     |     |     |     |     | 3   |     |     |     |     | 3         |
| MATH  |      |  | Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023                     | 3-4          |     |     |     |     |     |     |     |     |     |     |     |           |
| MATH  | 1003 |  | Calculus and Linear Algebra   | 3            |     |     |     |     |     |     |     |     |     |     |     |           |
| MATH  | 1012 |  | Calculus IA   | 4            |     |     |     |     |     |     |     |     |     |     |     |           |
| MATH  | 1013 |  | Calculus IB   | 4            |     |     |     |     |     |     |     |     |     |     |     |           |
| MATH  | 1020 |  | Accelerated Calculus  | 3            |     |     |     |     |     |     |     |     |     |     |     |           |
| MATH  | 1023 |  | Honors Calculus I   | 3            |     |     |     |     |     |     |     |     |     |     |     |           |
| <b>Required credits for School Requirements</b> |      |  |   | <b>43-44</b> |     |     |     |     |     |     |     |     |     |     |     | <b>34</b> |

**Major Requirements**

**Major Required Courses and Electives**

|  |  |  |   |           |  |  |   |  |  |   |  |  |   |   |   |   |           |
|--|--|--|---|-----------|--|--|---|--|--|---|--|--|---|---|---|---|-----------|
| SBAM   |  |  | SBAM Electives (Any 9 courses offered by the departments under SBAM, of which at least 4 courses are of 3000-level or above.) | 29        |  |  | 3 |  |  | 2 |  |  | 7 | 3 | 7 | 7 | 29        |
| <b>Required credits for Major Required Courses and Electives</b> |  |  |   | <b>29</b> |  |  |   |  |  |   |  |  |   |   |   |   | <b>29</b> |

**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        |
| <b>Required credits for Additional Requirements</b> |      |  |   | <b>0</b> |   |   |   |   |   |   |   |   |   |   |   | <b>0</b> |

**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         |
| <b>Sub-total for University CORE</b> |          |  |                           | <b>36</b> |   |   |  |  |  |   |  |  |  |  |   |   |   | <b>36</b> |

|                                       |    |    |    |    |    |    |    |    |    |    |  |
|---------------------------------------|----|----|----|----|----|----|----|----|----|----|--|
| <b>Term load (excl. free credits)</b> |    |    |    |    |    |    |    |    |    |    |  |
| 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):

>> 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.