### BEng in Civil Engineering

#### Major Requirements

**Engineering Fundamentals Courses**
- ECON 1010: Microeconomics
- ECON 1020: Macroeconomics
- MATH 1020: Honors Calculus I (MATH 1014 OR MATH 1024) OR [MATH 1020]
- PHYS 1020P: Accelerated Calculus
- PHYS 1021: Calculus IA
- PHYS 1022P: Calculus IB
- PHYS 1023: Calculus II
- PHYS 1012: Introduction to Computer Science
- PHYS 1013: Programming with C++
- PHYS 1014: Programming and Data Structures
- CHEM 1020: General Chemistry I
- ENGG 2010: Engineering Seminar Series
- SENG:  Any 3000-level or above courses offered by the Engineering School or CIVL: Any CIVL courses at 4000-level or above except CIVL 4230

**Civil and Environmental Engineering Final Year Project**
- CIVL 4950: Civil Engineering Capstone Design Project

**Required credits for Major Requirements Courses and Electives**

#### Additional Requirements

**Requirements for Dual Degree Program**

**Major Requirements**
- **Compulsory Courses**
  - MATH 1020: Honors Calculus I (MATH 1014 OR MATH 1024) OR [MATH 1020]
  - PHYS 1020P: Accelerated Calculus
  - PHYS 1021: Calculus IA
  - PHYS 1022P: Calculus IB
  - PHYS 1023: Calculus II
  - PHYS 1012: Introduction to Computer Science
  - PHYS 1013: Programming with C++
  - PHYS 1014: Programming and Data Structures
  - CHEM 1020: General Chemistry I
  - ENGG 2010: Engineering Seminar Series
  - SENG:  Any 3000-level or above courses offered by the Engineering School or CIVL: Any CIVL courses at 4000-level or above except CIVL 4230

**Required credits for Major Requirements Courses and Electives**

**Notes:**
- Courses in parentheses must be completed with at least grades of B for graduation.
- Students must complete a total of 140 credits (including additional courses).
- Students must complete the requirements of both BEng and BBA degrees.
- BBA students who take MATH 2011 and to waive ISOM 2010 and to waive ISOM 2010 and to waive ISOM 2010.
- Students should check the Program Catalog/UG Curriculum Handbook for updated graduation requirements.
- Waived for DDP students if they are DDP students who took COMP 1021  OR  COMP1022P  OR  COMP2011 OR COMP2012H
- Students should take COMP1021
- Students should take ISOM 2010 and to waive ISOM 2010 and to waive ISOM 2010.
- Waived for DDP students if they are DDP students who took COMP 1021  OR  COMP1022P  OR  COMP2011 OR COMP2012H
- Students should take ISOM 2010 and to waive ISOM 2010 and to waive ISOM 2010.
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