FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES
2017 STUDY PLAN

FOR ADVANCED STANDING - OFFICE USE ONLY

Please mark the box to indicate advanced standing granted (use CONDITIONAL to denote conditional advanced standing)

<table>
<thead>
<tr>
<th>Unspecified Elective Credit:</th>
<th>Level 1:</th>
<th>units</th>
<th>Level 2:</th>
<th>units</th>
<th>Level 3:</th>
<th>units</th>
<th>Level 4:</th>
<th>units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student ID Number:</td>
<td></td>
<td></td>
<td>Student Name:</td>
<td></td>
<td>Date: 8/12/16</td>
<td></td>
<td>Assessor Name:</td>
<td></td>
</tr>
<tr>
<td>Assessor Name:</td>
<td></td>
<td></td>
<td>Advanced Standing Granted:</td>
<td>units</td>
<td>Remaining Program Duration: 5 years</td>
<td></td>
<td>Applicant’s Previous Institution:</td>
<td></td>
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<tr>
<td>Applicant’s Previous Qualification:</td>
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<tr>
<td>Assessor’s Comments:</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

### BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF SCIENCE

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>S1</th>
<th>MATHS 1011 Mathematics IA (3 units)#</th>
<th>C&amp;ENVENG 1010 Engineering Mechanics - Statics (3 units)</th>
<th>C&amp;ENVENG 1008 Engineering Planning &amp; Design I (3 units)</th>
<th>Level I Science Elective (3 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>C&amp;ENVENG 1012 Engineering Modelling &amp; Analysis I (3 units)</td>
<td>C&amp;ENVENG 1009 Civil &amp; Environmental Engineering I (3 units)</td>
<td>MATHS 1012 Mathematics IB (3 units)</td>
<td>Level I Science Elective (3 units)</td>
</tr>
<tr>
<td>S2</td>
<td></td>
<td>MATHS 2201 Engineering Mathematics IIA (3 units)</td>
<td>C&amp;ENVENG 2068 Environmental Engineering &amp; Sustainability II (3 units)</td>
<td>C&amp;ENVENG 2071 Water Engineering II (3 units)</td>
<td>Level II Science Elective (3 units)</td>
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<tr>
<td>YEAR 2</td>
<td>S1</td>
<td>C&amp;ENVENG 2070 Engineering Modelling &amp; Analysis II (3 units)</td>
<td>C&amp;ENVENG 2069 Geotechnical Engineering II (3 units)</td>
<td>C&amp;ENVENG 2067 Construction, Management &amp; Surveying (3 units)</td>
<td>MATHS 2202 Engineering Mathematics IIB or Level II Science Elective (3 units)</td>
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<td>C&amp;ENVENG 3029 Environmental Modelling &amp; Management (3 units)</td>
<td>C&amp;ENVENG 3077 Engineering Hydrology (3 units)</td>
<td>ECON 3500 Resources and Environmental Economics III (3 units)</td>
<td>Level II Science Elective (3 units)</td>
</tr>
<tr>
<td>S2</td>
<td></td>
<td>C&amp;ENVENG 3222 Research Methodologies and Project Management (3 units)</td>
<td>C&amp;ENVENG 3079 Water Engineering &amp; Design III (3 units)</td>
<td>LAW 4100 Introduction to Environmental Law (3 units)</td>
<td>Level II Science Elective (3 units)</td>
</tr>
</tbody>
</table>
## 2017 Study Plan

### YEAR 4

#### SEMESTER 1
- **S1**
  - C&ENVENG 4222A Research Project Part A: Civil (3 units)
  - C&ENVENG 4034 Engineering Management IV (3 units)
  - C&ENVENG 4108 Environmental Systems Dynamics (3 units)
  - Engineering Elective (3 units)
- **S2**
  - C&ENVENG 4222B Research Project Part B: Civil (3 units)
  - Engineering Elective (3 units)
  - C&ENVENG 4110 Soil & Groundwater Remediation (3 units)
  - C&ENVENG 4109 Designing Water Resource Systems for Urban Environments (3 units)

### YEAR 5

#### SEMESTER 1
- **S1**
  - Level III Science Elective (3 units)
  - Level III Science Elective (3 units)
  - Level III Science Elective (3 units)
  - Level III Science Elective (3 units)
- **S2**
  - Level III Science Elective (3 units)
  - Level III Science Elective (3 units)
  - Level III Science Elective (3 units)
  - Level III Science Elective (3 units)

### CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

#### SEMESTER 1
- C&ENVENG 4073 Water Distribution Systems & Design (3 units)
- MINING 4104 Socio-Environmental Aspects of Mining (3 units)
- C&ENVENG 4056 Linear Geostatistics (3 units)**
- C&ENVENG 4056 Linear Geostatistics (3 units)**
- MINING 4104 Socio-Environmental Aspects of Mining (3 units)
- C&ENVENG 4056 Linear Geostatistics (3 units)**
- C&ENVENG 4112 Advanced Civil Geotechnical Engineering (3 units)
- CHEM ENG 4051 Water & Wastewater Engineering (3 units)

#### WINTER
- C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management (3 units)
- C&ENVENG 4085 Traffic Engineering (3 units)
- C&ENVENG 4106 Introduction to Geostatistics (3 units)**

#### SEMESTER 2
- C&ENVENG 3012 Geotechnical Engineering Design III (3 units)
- C&ENVENG 4115 Advanced Topics in Flood Hydrology (3 units)
- ENTREP 3900 Entrepreneur's Challenge (3 units)
- SOIL&WAT 3010 Remote Sensing III (3 units)
- Level II or III Mathematics Course (3 units)
- Level II or III Mathematics Course (3 units)
- Level II or III Mathematics Course (3 units)
- Level II or III Mathematics Course (3 units)

#### SUMMER
- C&ENVENG 4085 Traffic Engineering (3 units)
- C&ENVENG 4106 Introduction to Geostatistics (3 units)**
- SOIL&WAT 3007WT GIS for Environmental Management III (3 units)

**NOT OFFERED 2017**
2017 STUDY PLAN

# Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

** C&ENVENG 4106 Introduction to Geostatistics is a pre-requisite to C&ENVENG 4056 Linear Geostatistics.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.
This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

### BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF SCIENCE – Semester 2 Start

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>S 2</th>
<th>MATHS 1011 Mathematics IA (3 units)#</th>
<th>C&amp;ENVENG 1012 Engineering Modelling &amp; Analysis I (3 units)</th>
<th>C&amp;ENVENG 1009 Civil &amp; Environmental Engineering I (3 units)</th>
<th>Level I Science Elective (3 units)</th>
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<tbody>
<tr>
<td>YEAR 2</td>
<td>S 1</td>
<td>MATHS 1012 Mathematics IB (3 units)</td>
<td>C&amp;ENVENG 1010 Engineering Mechanics - Statics (3 units)</td>
<td>C&amp;ENVENG 1008 Engineering Planning &amp; Design I (3 units)</td>
<td>Level I Science Elective (3 units)</td>
</tr>
<tr>
<td></td>
<td>S 2</td>
<td>C&amp;ENVENG 2070 Engineering Modelling &amp; Analysis II (3 units)</td>
<td>C&amp;ENVENG 2069 Geotechnical Engineering II (3 units)</td>
<td>C&amp;ENVENG 2067 Construction, Management &amp; Surveying (3 units)</td>
<td>Level II Science Elective (3 units)</td>
</tr>
<tr>
<td>YEAR 3</td>
<td>S 1</td>
<td>MATHS 2201 Engineering Mathematics II A (3 units)</td>
<td>C&amp;ENVENG 2068 Environmental Engineering &amp; Sustainability II (3 units)</td>
<td>C&amp;ENVENG 2071 Water Engineering II (3 units)</td>
<td>Level II Science Elective (3 units)</td>
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<tr>
<td></td>
<td>S 2</td>
<td>C&amp;ENVENG 3079 Water Engineering &amp; Design III (3 units)</td>
<td>LAW 4100 Introduction to Environmental Law (3 units)</td>
<td>Level II Science Elective (3 units)</td>
<td>MATHS 2202 Engineering Mathematics II B or Level II Science Elective (3 units)</td>
</tr>
<tr>
<td>YEAR 4</td>
<td>S 1</td>
<td>C&amp;ENVENG 3029 Environmental Modelling &amp; Management (3 units)</td>
<td>C&amp;ENVENG 3077 Engineering Hydrology (3 units)</td>
<td>ECON 3500 Resources and Environmental Economics III (3 units)</td>
<td>Level III Science Elective (3 units)</td>
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<tr>
<td>YEAR 5</td>
<td>SEMESTER 1</td>
<td>C&amp;ENVENG 3222 Research Methodologies and Project Management (3 units)</td>
<td>Level III Science Elective (3 units)</td>
<td>Level III Science Elective (3 units)</td>
<td>Level III Science Elective (3 units)</td>
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<tr>
<td>S 1</td>
<td>C&amp;ENVENG 4222A Research Project Part A: Civil (3 units)</td>
<td>C&amp;ENVENG 4034 Engineering Management IV (3 units)</td>
<td>C&amp;ENVENG 4108 Environmental Systems Dynamics (3 units)</td>
<td>Engineering Elective (3 units)</td>
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<td>S 2</td>
<td>C&amp;ENVENG 4222B Research Project Part B: Civil (3 units)</td>
<td>Engineering Elective (3 units)</td>
<td>C&amp;ENVENG 4110 Soil &amp; Groundwater Remediation (3 units)</td>
<td>C&amp;ENVENG 4109 Designing Water Resource Systems for Urban Environments (3 units)</td>
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<td>YEAR 6</td>
<td>SEMESTER 1</td>
<td>Level III Science Elective (3 units)</td>
<td>Level III Science Elective (3 units)</td>
<td>Level III Science Elective (3 units)</td>
<td>Level III Science Elective (3 units)</td>
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<td>S 1</td>
<td>C&amp;ENVENG 4073 Water Distribution Systems &amp; Design (3 units)</td>
<td>MINING 4104 Socio-Environmental Aspects of Mining (3 units)</td>
<td>C&amp;ENVENG 4112 Advanced Civil Geotechnical Engineering (3 units)</td>
<td>CHEM ENG 4051 Water &amp; Wastewater Engineering (3 units)</td>
<td></td>
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</table>
| WINTER | C&ENVENG 4056 Linear Geostatistics (3 units)** | Level II or III Mathematics Course (3 units) | C&ENVENG 4097 Analysis of Rivers & Sediment Transport (3 units) | | "NOT OFFERED 2017"
| SEMESTER 2 | C&ENVENG 3012 Geotechnical Engineering Design III (3 units) | C&ENVENG 4115 Advanced Topics in Flood Hydrology (3 units) | Level II or III Mathematics Course (3 units) | SOIL&WAT 3010 Remote Sensing III (3 units) | |
| C&ENVENG 4085 Traffic Engineering (3 units) | ENTREP 3900 Entrepreneur’s Challenge (3 units) | | | |
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| SUMMER | C&ENVENG 4106 Introduction to Geostatistics (3 units)** | SOIL&WAT 3007WT GIS for Environmental Management III (3 units) | | |

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** C&ENVENG 4106 Introduction to Geostatistics is a pre-requisite to C&ENVENG 4056 Linear Geostatistics.