

2022 Study Plan  
Bachelor of Engineering (Honours) (Environmental & Climate Solutions)  
with Bachelor of Mathematical and Computer Sciences – Computer Science Major  
Semester 1 Start

|                               |   |
|-------------------------------|---|
| No Major .....                | 2 |
| Climate Solutions Major ..... | 3 |
| Renewable Energy Major.....   | 5 |
| Smart Technologies Major..... | 7 |

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with Bachelor of Mathematical and Computer Sciences – Computer Science Major  
Semester 1 Start

No Major

| Year 1   |   |  |  |   |
|--|---|--|--|---|
| S<br>1   | MATHS 1011<br>Mathematics IA <input type="checkbox"/>                             | ENG 1002<br>Programming (Matlab and C) <input type="checkbox"/>  | ^ ENG 1001<br>Introduction to Engineering <input type="checkbox"/>                                     | CEME 1001<br>Introduction to Environmental Engineering <input type="checkbox"/>     |
| S<br>2   | MATHS 1012<br>Mathematics IB <input type="checkbox"/>                             | ENV BIOL 1002<br>Ecological Issues I <input type="checkbox"/>  | CEME 1002<br>Introduction to Infrastructure <input type="checkbox"/>                                   | CEME 1003<br>Resources and Energy in a Circular<br>Economy <input type="checkbox"/> |
| Year 2   |   |  |  |   |
| S<br>1   | MATHS 2106<br>Differential Equations for Engineers II <input type="checkbox"/>    | CEME 2003<br>Civil Engineering Hydraulics <input type="checkbox"/>                                     | CEME 2004<br>Introduction to Geo-engineering <input type="checkbox"/>                                  | CHEM ENG 2017<br>Transport Processes in the<br>Environment <input type="checkbox"/> |
| S<br>2   | MATHS 2107<br>Statistics & Numerical Methods II <input type="checkbox"/>          | CEME 2006<br>Climate & Environmental Change<br>Impact Modelling <input type="checkbox"/>               | CEME 2005<br>Transportation Engineering & Survey <input type="checkbox"/>                              | COMP SCI 1102<br>Object Oriented Programming <input type="checkbox"/>               |
| Year 3   |   |  |  |   |
| S<br>1   | ENG 3004<br>Systems Engineering and Industry<br>Practice <input type="checkbox"/> | CEME 3004<br>Hydrology for Engineers <input type="checkbox"/>  | GEOG 2129<br>Introductory Geographic Information<br>Systems <input type="checkbox"/>                   | COMP SCI 2103<br>Algorithm Design & Data Structures <input type="checkbox"/>        |
| S<br>2   | ENG 3005<br>Research Method & Project<br>Management <input type="checkbox"/>      | CEME 3005<br>Advanced Civil Engineering Hydraulics <input type="checkbox"/>                            | CEME 3007<br>Integrated Environment Planning &<br>Impact Assessment <input type="checkbox"/>           | COMP SCI 2201<br>Algorithm & Data Structure Analysis <input type="checkbox"/>       |
| Internship   |   |  |  |   |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below. |   |  |  |   |
| Year 4   |   |  |  |   |
| S<br>1   | ENG 4001A<br>Research Project Part A <input type="checkbox"/>                     | Environmental & Climate Solutions<br>Elective – Set 1<br>(see elective table) <input type="checkbox"/> | Environmental & Climate Solutions<br>Elective – Set 1<br>(see elective table) <input type="checkbox"/> | COMP SCI 2000<br>Computer Systems <input type="checkbox"/>                          |
| S<br>2   | ENG 4001B<br>Research Project Part B <input type="checkbox"/>                     | CEME 4010<br>Designing Water Resource Systems for<br>Urban Environments <input type="checkbox"/>       | CEME 4009<br>Environmental Decision Making <input type="checkbox"/>                                    | COMP SCI 3006<br>Software Engineering & Project <input type="checkbox"/>            |

## 2022 Study Plan

# Bachelor of Engineering (Honours) (Environmental & Climate Solutions) with Bachelor of Mathematical and Computer Sciences – Computer Science Major Semester 1 Start

| Year 5       |  |  |  |   |
|--------------|--|--|--|---|
| S<br>1       | CEME 4008<br>Soil and Ground Water Remediation <input type="checkbox"/>                                | Environmental & Climate Solutions<br>Elective – Set 2<br>(see elective table) <input type="checkbox"/> | Environmental & Climate Solutions<br>Elective – Set 2<br>(see elective table) <input type="checkbox"/> | #Level III Computer Science Elective <input type="checkbox"/> |
| S<br>2       | Environmental & Climate Solutions<br>Elective – Set 1<br>(see elective table) <input type="checkbox"/> | Environmental & Climate Solutions<br>Elective – Set 2<br>(see elective table) <input type="checkbox"/> | #Level III Computer Science Elective <input type="checkbox"/>  | #Level III Computer Science Elective <input type="checkbox"/> |
| Core Courses |  | Double Degree Courses  | Elective   |   |

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

### CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 1

|        |             |                           |    |   |   |
|--------|-------------|---------------------------|----|---|---|
| S1     | GEOG 2139   | Environmental Management  | S2 | ENTREP 3000<br>GEOG 2135<br>GEOG 2142<br>GEOLOGY 3502<br>LAW 2511 | Innovation and Creativity<br>Urban Futures<br>Climate Change<br>Mineral and Energy Resources III<br>Environmental Law |
| SUMMER | ENTREP 3000 | Innovation and Creativity |    |   |   |

### CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2

|        |                            |  |        |             |   |
|--------|----------------------------|--|--------|-------------|---|
| S1     | ENTREP 3006<br>MINING 4104 | Energy Management, Economics and Policy<br>Socio-Environmental Aspects of Mining | S2     | CEME 4006   | Climate Risk and Resilience             |
| SUMMER | CEME 4005                  | Integrated Natural Hazard Risk Management  | WINTER | ENTREP 3006 | Energy Management, Economics and Policy |

#### NOTES

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# Computer Science Electives may be chosen from the Computer Science courses listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

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Semester 1 Start

Climate Solutions Major

| Year 1   |   |  |   |  |
|--|---|--|---|--|
| S<br>1   | MATHS 1011<br>Mathematics IA <input type="checkbox"/>                           | ENG 1002<br>Programming (Matlab and C) <input type="checkbox"/>                                  | <sup>^</sup> ENG 1001<br>Introduction to Engineering <input type="checkbox"/>                 | CEME 1001<br>Introduction to Environmental Engineering <input type="checkbox"/>  |
| S<br>2   | MATHS 1012<br>Mathematics IB <input type="checkbox"/>                           | ENV BIOL 1002<br>Ecological Issues I <input type="checkbox"/>                                    | CEME 1002<br>Introduction to Infrastructure <input type="checkbox"/>                          | CEME 1003<br>Resources and Energy in a Circular Economy <input type="checkbox"/> |
| Year 2   |   |  |   |  |
| S<br>1   | MATHS 2106<br>Differential Equations for Engineers II <input type="checkbox"/>  | CEME 2003<br>Civil Engineering Hydraulics <input type="checkbox"/>                               | CEME 2004<br>Introduction to Geo-engineering <input type="checkbox"/>                         | CHEM ENG 2017<br>Transport Processes in the Environment <input type="checkbox"/> |
| S<br>2   | MATHS 2107<br>Statistics & Numerical Methods II <input type="checkbox"/>        | CEME 2005<br>Transportation Engineering & Survey <input type="checkbox"/>                        | CEME 2006<br>Climate & Environmental Change Impact Modelling <input type="checkbox"/>         | COMP SCI 1102<br>Object Oriented Programming <input type="checkbox"/>            |
| Year 3   |   |  |   |  |
| S<br>1   | ENG 3004<br>Systems Engineering and Industry Practice <input type="checkbox"/>  | CEME 3004<br>Hydrology for Engineers <input type="checkbox"/>                                    | GEOG 2129<br>Introductory Geographic Information Systems <input type="checkbox"/>             | COMP SCI 2103<br>Algorithm Design & Data Structures <input type="checkbox"/>     |
| S<br>2   | ENG 3005<br>Research Method & Project Management <input type="checkbox"/>       | CEME 3005<br>Advanced Civil Engineering Hydraulics <input type="checkbox"/>                      | CEME 3007<br>Integrated Environment Planning & Impact Assessment <input type="checkbox"/>     | COMP SCI 2201<br>Algorithm & Data Structure Analysis <input type="checkbox"/>    |
| Internship   |   |  |   |  |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below. |   |  |   |  |
| Year 4   |   |  |   |  |
| S<br>U<br>M  | CEME 4005<br>Integrated Natural Hazard Risk Management <input type="checkbox"/> |  |   |  |
| S<br>1   | ENG 4001A<br>Research Project Part A <input type="checkbox"/>                   | Environmental & Climate Solutions Elective – Set 1 (see elective table) <input type="checkbox"/> | #Level III Computer Science Elective <input type="checkbox"/>                                 | COMP SCI 2000<br>Computer Systems <input type="checkbox"/>                       |
| S<br>2   | ENG 4001B<br>Research Project Part B <input type="checkbox"/>                   | GEOG 2142<br>Climate Change <input type="checkbox"/>   | CEME 4010<br>Designing Water Resource Systems for Urban Environments <input type="checkbox"/> | COMP SCI 3006<br>Software Engineering & Project <input type="checkbox"/>         |

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| Year 5       |  |  |   |   |  |
|--------------|--|--|---|---|--|
| S<br>1       | Environmental & Climate Solutions<br>Elective – Set 1<br>(see elective table) <input type="checkbox"/> | Environmental & Climate Solutions<br>Elective – Set 2<br>(see elective table) <input type="checkbox"/> | CEME 4008<br>Soil and Ground Water Remediation <input type="checkbox"/> |   |  |
| S<br>2       | CEME 4009<br>Decision Making for Sustainable<br>Solutions <input type="checkbox"/>                     | CEME 4006<br>Climate Risk and Resilience <input type="checkbox"/>                                      | #Level III Computer Science Elective <input type="checkbox"/>           | #Level III Computer Science Elective <input type="checkbox"/> |  |
| Core Courses |  | Double Degree Courses  | Elective  |   |  |

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

| CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 1 |                            |  |        |   |   |
|---|----------------------------|--|--------|---|---|
| S1  | GEOG 2139                  | Environmental Management   | S2     | ENTREP 3000<br>GEOG 2135<br>GEOG 2142<br>GEOLOGY 3502<br>LAW 2511 | Innovation and Creativity<br>Urban Futures<br>Climate Change<br>Mineral and Energy Resources III<br>Environmental Law |
| SUMMER  | ENTREP 3000                | Innovation and Creativity  |        |   |   |
| CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2 |                            |  |        |   |   |
| S1  | ENTREP 3006<br>MINING 4104 | Energy Management, Economics and Policy<br>Socio-Environmental Aspects of Mining | S2     |   |   |
| SUMMER  | CEME 4005                  | Integrated Natural Hazard Risk Management  | WINTER | ENTREP 3006   | Energy Management, Economics and Policy   |

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Semester 1 Start

Renewable Energy Major

| Year 1   |  |   |   |   |
|--|--|---|---|---|
| S<br>1   | MATHS 1011<br>Mathematics IA <input type="checkbox"/>                          | ENG 1002<br>Programming (Matlab and C) <input type="checkbox"/>                               | <sup>^</sup> ENG 1001<br>Introduction to Engineering <input type="checkbox"/>             | CEME 1001<br>Introduction to Environmental Engineering <input type="checkbox"/>                       |
| S<br>2   | MATHS 1012<br>Mathematics IB <input type="checkbox"/>                          | ENV BIOL 1002<br>Ecological Issues I <input type="checkbox"/>                                 | CEME 1002<br>Introduction to Infrastructure <input type="checkbox"/>                      | CEME 1003<br>Resources and Energy in a Circular Economy <input type="checkbox"/>                      |
| Year 2   |  |   |   |   |
| S<br>1   | MATHS 2106<br>Differential Equations for Engineers II <input type="checkbox"/> | CEME 2003<br>Civil Engineering Hydraulics <input type="checkbox"/>                            | CEME 2004<br>Introduction to Geo-engineering <input type="checkbox"/>                     | ELEC ENG 1101<br>Electronic Systems <input type="checkbox"/>  |
| S<br>2   | MATHS 2107<br>Statistics & Numerical Methods II <input type="checkbox"/>       | CEME 2005<br>Transportation Engineering & Survey <input type="checkbox"/>                     | CEME 2006<br>Climate & Environmental Change Impact Modelling <input type="checkbox"/>     | COMP SCI 1102<br>Object Oriented Programming <input type="checkbox"/>                                 |
| Year 3   |  |   |   |   |
| S<br>1   | ENG 3004<br>Systems Engineering and Industry Practice <input type="checkbox"/> | CEME 3004<br>Hydrology for Engineers <input type="checkbox"/>                                 | GEOG 2129<br>Introductory Geographic Information Systems <input type="checkbox"/>         | CHEM ENG 2017<br>Transport Processes in the Environment <input type="checkbox"/>                      |
| S<br>2   | ENG 3005<br>Research Method & Project Management <input type="checkbox"/>      | CEME 3005<br>Advanced Civil Engineering Hydraulics <input type="checkbox"/>                   | CEME 3007<br>Integrated Environment Planning & Impact Assessment <input type="checkbox"/> | COMP SCI 2103<br>Algorithm Design & Data Structures <input type="checkbox"/>                          |
| Internship   |  |   |   |   |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below. |  |   |   |   |
| Year 4   |  |   |   |   |
| S<br>1   | ENG 4001A<br>Research Project Part A <input type="checkbox"/>                  | CEME 4008<br>Soil and Ground Water Remediation <input type="checkbox"/>                       | COMP SCI 2000<br>Computer Systems <input type="checkbox"/>                                | COMP SCI 2201<br>Algorithm & Data Structure Analysis <input type="checkbox"/>                         |
| S<br>2   | ENG 4001B<br>Research Project Part B <input type="checkbox"/>                  | CEME 4010<br>Designing Water Resource Systems for Urban Environments <input type="checkbox"/> | CEME 4009<br>Decision Making for Sustainable Solutions <input type="checkbox"/>           | Environmental & Climate Solutions Elective – Set 1 or 2 (see elective table) <input type="checkbox"/> |

## 2022 Study Plan

# Bachelor of Engineering (Honours) (Environmental & Climate Solutions) with Bachelor of Mathematical and Computer Sciences – Computer Science Major

## Semester 1 Start

| Year 5       |  |   |  |   |  |
|--------------|--|---|--|---|--|
| S<br>1       | MECH ENG 4064<br>Renewable Power Technologies <input type="checkbox"/> | Environmental & Climate Solutions<br>Elective – Set 1 or 2<br>(see elective table) <input type="checkbox"/> | COMP SCI 3006<br>Software Engineering & Project <input type="checkbox"/> | #Level III Computer Science Elective <input type="checkbox"/> |  |
| S<br>2       | CHEM ENG 4048<br>Biofuels, Biomass and Wastes <input type="checkbox"/> | ELEC ENG 4111<br>Distributed Generation Technologies <input type="checkbox"/>                               | #Level III Computer Science Elective <input type="checkbox"/>            | #Level III Computer Science Elective <input type="checkbox"/> |  |
| Core Courses |  | Double Degree Courses   | Elective   |   |  |

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

| CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 1 |                            |  |        |   |   |
|---|----------------------------|--|--------|---|---|
| S1  | GEOG 2139                  | Environmental Management   | S2     | ENTREP 3000<br>GEOG 2135<br>GEOG 2142<br>GEOLOGY 3502<br>LAW 2511 | Innovation and Creativity<br>Urban Futures<br>Climate Change<br>Mineral and Energy Resources III<br>Environmental Law |
| SUMMER  | ENTREP 3000                | Innovation and Creativity  |        |   |   |
| CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2 |                            |  |        |   |   |
| S1  | ENTREP 3006<br>MINING 4104 | Energy Management, Economics and Policy<br>Socio-Environmental Aspects of Mining | S2     | CEME 4006   | Climate Risk and Resilience   |
| SUMMER  | CEME 4005                  | Integrated Natural Hazard Risk Management  | WINTER | ENTREP 3006   | Energy Management, Economics and Policy   |

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2022 Study Plan

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Semester 1 Start

Smart Technologies Major

| Year 1   |   |  |  |   |
|--|---|--|--|---|
| S<br>1   | MATHS 1011<br>Mathematics IA <input type="checkbox"/>                             | ENG 1002<br>Programming (Matlab and C) <input type="checkbox"/>  | <sup>^</sup> ENG 1001<br>Introduction to Engineering <input type="checkbox"/>                    | CEME 1001<br>Introduction to Environmental<br>Engineering <input type="checkbox"/>  |
| S<br>2   | MATHS 1012<br>Mathematics IB <input type="checkbox"/>                             | ENV BIOL 1002<br>Ecological Issues I <input type="checkbox"/>  | CEME 1002<br>Introduction to Infrastructure <input type="checkbox"/>                             | CEME 1003<br>Resources and Energy in a Circular<br>Economy <input type="checkbox"/> |
| Year 2   |   |  |  |   |
| S<br>1   | MATHS 2106<br>Differential Equations for Engineers II <input type="checkbox"/>    | CEME 2003<br>Civil Engineering Hydraulics <input type="checkbox"/>                                     | CEME 2004<br>Introduction to Geo-engineering <input type="checkbox"/>                            | CHEM ENG 2017<br>Transport Processes in the<br>Environment <input type="checkbox"/> |
| S<br>2   | MATHS 2107<br>Statistics & Numerical Methods II <input type="checkbox"/>          | CEME 2005<br>Transportation Engineering & Survey <input type="checkbox"/>                              | CEME 2006<br>Climate & Environmental Change<br>Impact Modelling <input type="checkbox"/>         | COMP SCI 1102<br>Object Oriented Programming <input type="checkbox"/>               |
| Year 3   |   |  |  |   |
| S<br>1   | ENG 3004<br>Systems Engineering and Industry<br>Practice <input type="checkbox"/> | CEME 3004<br>Hydrology for Engineers <input type="checkbox"/>  | GEOG 2129<br>Introductory Geographic Information<br>Systems <input type="checkbox"/>             | COMP SCI 2103<br>Algorithm Design & Data Structures <input type="checkbox"/>        |
| S<br>2   | ENG 3005<br>Research Method & Project<br>Management <input type="checkbox"/>      | CEME 3005<br>Advanced Civil Engineering Hydraulics <input type="checkbox"/>                            | CEME 3007<br>Integrated Environment Planning &<br>Impact Assessment <input type="checkbox"/>     | COMP SCI 2201<br>Algorithm & Data Structure Analysis <input type="checkbox"/>       |
| Internship   |   |  |  |   |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below. |   |  |  |   |
| Year 4   |   |  |  |   |
| S<br>1   | ENG 4001A<br>Research Project Part A <input type="checkbox"/>                     | Environmental & Climate Solutions<br>Elective – Set 2<br>(see elective table) <input type="checkbox"/> | #Level II or III Computer Science<br>Elective <input type="checkbox"/>                           | COMP SCI 2000<br>Computer Systems <input type="checkbox"/>                          |
| S<br>2   | ENG 4001B<br>Research Project Part B <input type="checkbox"/>                     | MECH ENG 3032<br>Micro-Controller Programming <input type="checkbox"/>                                 | CEME 4010<br>Designing Water Resource Systems for<br>Urban Environments <input type="checkbox"/> | COMP SCI 3006<br>Software Engineering & Project <input type="checkbox"/>            |



## 2022 Study Plan

# Bachelor of Engineering (Honours) (Environmental & Climate Solutions) with Bachelor of Mathematical and Computer Sciences – Computer Science Major Semester 1 Start

| Year 5       |  |   |  |   |  |
|--------------|--|---|--|---|--|
| S<br>1       | COMP SCI 3001<br>Computer Networks & Applications <input type="checkbox"/>         | CEME 4008<br>Soil and Ground Water Remediation <input type="checkbox"/> | #Level II or III Computer Science<br>Elective <input type="checkbox"/> | #Level III Computer Science Elective <input type="checkbox"/> |  |
| S<br>2       | CEME 4009<br>Decision Making for Sustainable<br>Solutions <input type="checkbox"/> | COMP SCI 4412<br>Secure Software Engineering <input type="checkbox"/>   | #Level III Computer Science Elective <input type="checkbox"/>          | #Level III Computer Science Elective <input type="checkbox"/> |  |
| Core Courses |  | Double Degree Courses   | Elective   |   |  |

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### CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2

|               |                            |  |               |             |   |
|---------------|----------------------------|--|---------------|-------------|---|
| <b>S1</b>     | ENTREP 3006<br>MINING 4104 | Energy Management, Economics and Policy<br>Socio-Environmental Aspects of Mining | <b>S2</b>     | CEME 4006   | Climate Risk and Resilience             |
| <b>SUMMER</b> | CEME 4005                  | Integrated Natural Hazard Risk Management  | <b>WINTER</b> | ENTREP 3006 | Energy Management, Economics and Policy |

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