

| | |
|--------------------------------------|---|
| No Major | 2 |
| Geotechnical Engineering Major | 4 |
| Structural Engineering Major..... | 6 |
| Water Systems Major | 8 |

2022 Study Plan

Bachelor of Engineering (Honours) (Civil) with Bachelor of Science

Semester 1 Start

No Major

| Year 1 | | | | |
|--|--|---|--|---|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | Level I Engineering Elective (see elective table) <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see the note section below. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| Year 5 | | | | |
| S 1 | Civil Engineering Elective (see elective table) <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| S 2 | Civil Engineering Elective (see elective table) <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| Core Course | | Elective | | Double Degree Courses |

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

2022 Study Plan

Bachelor of Engineering (Honours) (Civil) with Bachelor of Science

Semester 1 Start

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | | |
|--|---|---|-----------|--|--|
| S1 | CEME 1001 CHEM ENG 1007 ELEC ENG 1101 | Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems | S2 | CEME 1003 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007 | Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics |
| CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES | | | | | |
| S1 | CEME 4001 CEME 4002 CEME 4007 CEME 4008 CHEM ENG 4051 | Advanced Reinforced Concrete Design Finite Element Theory and Practice Unsaturated Soils Soil and Ground Water Remediation Water and Wastewater Engineering | S2 | CEME 2006 CEME 3007 CEME 4003 CEME 4006 CEME 4009 CEME 4010 | Climate & Environmental Change Impact Modelling Integrated Environment Planning and Impact Assessment Wind and Earthquake Engineering Climate Risk and Resilience Decision Making for Sustainable Solutions Designing Water Resource Systems for Urban Environments |
| SUM | CEME 4005 | Integrated Natural Hazard Risk Management | | | |

NOTES

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2022 Study Plan

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Semester 1 Start

Geotechnical Engineering Major

| Year 1 | | | | |
|--|--|---|--|---|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
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| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | MINING 3076 Geomechanics & Excavation Engineering <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| Year 5 | | | | |
| S 1 | CEME 4007 Unsaturated Soils <input type="checkbox"/> | GEOLOGY 2501 Structural Geology II <input type="checkbox"/> | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| S 2 | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| Core Courses | | Major Courses | Elective | Double Degree Courses |

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2022 Study Plan

Bachelor of Engineering (Honours) (Civil) with Bachelor of Science

Semester 1 Start

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | | |
|--|---|---|-----------|--|--|
| S1 | CEME 1001 CHEM ENG 1007 ELEC ENG 1101 | Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems | S2 | CEME 1003 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007 | Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics |
| CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES | | | | | |
| S1 | CEME 4001 CEME 4002 CHEM ENG 4051 | Advanced Reinforced Concrete Design Finite Element Theory and Practice Water and Wastewater Engineering | S2 | CEME 2006 CEME 3007 CEME 4003 CEME 4006 CEME 4009 CEME 4010 | Climate & Environmental Change Impact Modelling Integrated Environment Planning and Impact Assessment Wind and Earthquake Engineering Climate Risk and Resilience Decision Making for Sustainable Solutions Designing Water Resource Systems for Urban Environments |
| SUM | CEME 4005 | Integrated Natural Hazard Risk Management | | | |

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2022 Study Plan Bachelor of Engineering (Honours) (Civil) with Bachelor of Science Semester 1 Start

Structural Engineering Major

| Year 1 | | | | |
|--|--|---|--|---|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | Level I Engineering Elective (see elective table) <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| Internship | | | | |
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| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| Year 5 | | | | |
| S 1 | CEME 4002 Finite Element Theory and Practice <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| S 2 | CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| Core Courses | | Major Courses | Elective | Double Degree Courses |

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2022 Study Plan

Bachelor of Engineering (Honours) (Civil) with Bachelor of Science

Semester 1 Start

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | | |
|-----------|---|--|-----------|--|--|
| S1 | CEME 1001 CHEM ENG 1007 ELEC ENG 1101 | Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems | S2 | CEME 1003 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007 | Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics |
|-----------|---|--|-----------|--|--|

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2022 Study Plan

Bachelor of Engineering (Honours) (Civil) with Bachelor of Science

Semester 1 Start

Water Systems Major

| Year 1 | | | | |
|--|--|--|---|---|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | # Level I Science Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | Level I Engineering Elective (see elective table) <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| Internship | | | | |
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| Year 4 | | | | |
| S U M | CEME 4005 Integrated Natural Hazard Risk Management <input type="checkbox"/> | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> | # Level II Science Elective <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> | |

2022 Study Plan

Bachelor of Engineering (Honours) (Civil) with Bachelor of Science

Semester 1 Start

| Year 5 | | | | |
|--------------|---|---|---|---|
| S 1 | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| S 2 | CEME 4006 Climate Risk and Resilience <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> | # Level III Science Elective <input type="checkbox"/> |
| Core Courses | | Major Courses | Elective | Double Degree Courses |

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CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | | |
|-----------|---|--|-----------|--|--|
| S1 | CEME 1001 CHEM ENG 1007 ELEC ENG 1101 | Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems | S2 | CEME 1003 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007 | Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics |
|-----------|---|--|-----------|--|--|

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