

## RECOMMENDED STUDY PLAN

**2021**

DEGREE Bachelor of Engineering (Honours) MAJOR Civil Engineering (CVL)

NAME \_\_\_\_\_ MINOR Mining and Minerals (MNM)

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to [Subject Search](#). If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 1	Degree Core: <u>EG1000</u> Engineering 1	Degree Core: <u>EG1010</u> Process Engineering
	Degree Core: <u>EG1002</u> Computing and Sensors	Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: <u>EG1012</u> Electric Circuits
	Degree Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008	Degree Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: <u>CS2003</u> Introduction to Structural Design PREREQ: CS2001
	Major Core: <u>CS2001</u> Engineering Strength of Materials PREREQ: EG1011	Major Core: <u>CS2005</u> Introduction to Geotechnical Engineering PREREQ: EG1011
	Major Core: <u>CS2002</u> Catchment, Stream and Lake Engineering	Major Core: <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: <u>ME2512</u> Thermofluid Mechanics PREREQ: EG1011	

### Trimester 2 – TR2 (May – Aug)

BX2077 Project Management #  
PREREQ: 18CP OF SUBJECTS

# replaces EG3000

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	Major Core: <u>CS3000</u> Structural Analysis PREREQ: CS2003 AND MA2000	Major Core: <u>CS3002</u> Soil Mechanics and Geology PREREQ: CS2005
	Major Core: <u>CS3001</u> Concrete Engineering PREREQ: CS2001	Major Core: <u>CS3003</u> Design of Steel and Concrete Structures PREREQ: CS2003 AND CS3000
	Major Core: <u>CS4002</u> Hydraulic and Coastal Engineering PREREQ: CS3008	Major Core: <u>CS3004</u> Transportation Engineering – <i>only offered EVEN years *</i>
	Minor Core: <u>EA2510</u> Earth Resources, Exploration and Environment PREREQ: EA1110 PLUS 9CP LEVEL 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 OR BU1104) SUBJECTS	Major Core: <u>CS4008</u> Water and Wastewater Engineering PREREQ: CS2002 AND EG1010

\*Will need to swap with a subject in Minor core list 1 depending on the year.

Year 4	Study Period 1 - SP1	Study Period 2 - SP2
	<b>Degree Core:</b> <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP	<b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	<b>Major Core:</b> <u>CS4001</u> Foundation Engineering and Rock Mechanics PREREQ: CS3002	<b>Major Core:</b> <u>CS4005</u> Civil Engineering Design PREREQ: CS3001 AND CS3003 AND CS40001 AND CS4002
	<b>Major Core:</b> <u>CS4010</u> Finite Element Analysis and Structural Dynamics PREREQ: EG1002 AND CS3000 AND MA2000	<b>Minor Core:</b> <u>CL4537</u> Minerals and Solids Processing PREREQ: 48CP
	<b>Minor Core:</b> <u>ME4521</u> Bulk Materials Handling – <i>only offered ODD years</i> <sup>^</sup> PREREQ: 48CP	<b>Minor Core List 1:</b>

<sup>^</sup>Will need to swap with EA2510 OR CS4002 depending on the year.

#### Further Degree Options:

Minor Core List 1:		
Study Period 1 – SP1		Study Period 2 – SP2
<u>CL4040</u> Safety, Environment and Sustainability in the Process Industries PREREQ: 48CP		<u>EA3400</u> Ore Genesis PREREQ: 12CP LEVEL 2 SUBJECTS INCLUDING EA2510 AND EA2220
	Study Period 7 - SP7 (Jun-Jul)	
	<u>EA2900</u> Introductory Field Geology PREREQ: EA1110 PLUS 9CP LEVEL 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 OR BU1104) SUBJECTS	