

## RECOMMENDED STUDY PLAN

2021-2022

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

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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	<b>Degree Core:</b> <u>EG3000</u> Introduction to Systems Engineering and Project Management PREREQ: EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001) OR 36CP	<b>Major Core:</b> <u>CS3002</u> Soil Mechanics and Geology PREREQ: CS2005
	<b>Major Core:</b> <u>CS3000</u> Structural Analysis PREREQ: CS2003 AND MA2000	<b>Major Core:</b> <u>CS3003</u> Design of Steel and Concrete Structures PREREQ: CS2003 AND CS3000
	<b>Major Core:</b> <u>CS3001</u> Concrete Engineering PREREQ: CS2001	<b>Major Core:</b> <u>CS3004</u> Transportation Engineering – <i>only offered EVEN years *</i> PREREQ: 48CP
	<b>Minor Core:</b> <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	<b>Minor Core:</b> <u>ME4521</u> Bulk Materials Handling PREREQ: 48CP

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>CS4002</u> Hydraulic and Coastal Engineering PREREQ: CS3008	<b>Major Core:</b> <u>CS4008</u> Water and Wastewater Engineering PREREQ: 48CP INCLUDING CS2002 AND EG1010
	<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 TOWARD BEngineering

**Further Degree Options:**

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