



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	DESN1000 Engineering Design and Innovation	Term 1	ENGG2400 Mechanics of Solids	Term 1	CVEN3203 Applied Geotechnics	Term 1	CVEN3501 Water Resources Engineering	Term 1	CVEN4050 (6 UoC) Thesis A <u>OR</u> CVEN4951 (4 UoC) Research Thesis A
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		ENGG2500 Fluid Mechanics for Engineers		CVEN3303 Steel Structures		GMAT2120 Surveying and Geospatial Technology		GMAT3100 Surveying Applications and Design
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Mathematics 2D (2E)		GMAT2500 Surveying Computations A		GMAT3220 Geospatial Information Systems		GMAT3150 Surveying Field Projects
Term 2	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 2	CVEN2101 Engineering Construction	Term 2	CVEN3304 Concrete Structures	Term 2	CVEN3502 Water and Wastewater Engineering	Term 2	CVEN4051 (6 UoC) Thesis B <u>OR</u> CVEN4952 (4 UoC) Research Thesis B
	GMAT1110 Surveying and Geospatial Engineering		CVEN2002 Engineering Computations		CVEN3401 Sustainable Transport & Highway Engineering		GMAT3700 Geodetic Positioning and Applications		Discipline Elective Course*
	ENGG1300 Engineering Mechanics		CVEN2303 Structural Analysis and Modelling		GMAT2700 Foundations of Geodesy & Geospatial Ref Frames				Professional Elective Course
Term 3	MATS1101 Engineering Materials and Chemistry	Term 3	DESN2000 Engineering Design & Professional Practice	Term 3	CVEN3101 Engineering Operations and Control	Term 3	GMAT3420 Cadastral Surveying and Land Law	Term 3	CVEN4953[^] Research Thesis C [^] (4 UoC)
	ENGG1811 Computing for Engineers		CVEN3202 Soil Mechanics		GMAT2550 Surveying Computations B		GMAT3500 Remote Sensing and Photogrammetry		Practice Elective <u>OR</u> Professional Elective <u>OR</u> Discipline Elective
							Discipline Elective Course		Practice Elective <u>OR</u> Professional Elective <u>OR</u> Discipline Elective

NOTES

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

*School approval is required to take alternate thesis options (4951/4952/4953). **Students completing CVEN4951/2/3 Research Thesis will need to complete CVEN4701 as one of their Discipline Electives. This is a compulsory requirement for graduations.** [^]CVEN4953 is only required if students have enrolled into CVEN4951 and CVEN4952.

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Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	MATH1131 Mathematics 1A	Term 2	ENGG2400 Mechanics of Solids	Term 2	CVEN2101 Engineering Construction	Term 2	CVEN3304 Concrete Structures	Term 2	CVEN4050 (6 UoC) Thesis A <u>OR</u> CVEN4951 (4 UoC) Research Thesis A
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		CVEN2002 Engineering Computations		GMAT2700 Foundations of Geodesy & Geospatial Ref Frames		CVEN3401 Sustainable Transport & Highway Engineering		GMAT3700 Geodetic Positioning and Applications
	GMAT1110 Surveying and Geospatial Engineering		MATH2018 Mathematics 2D				CVEN3502 Water and Wastewater Engineering		Discipline Elective Course*
Term 3	ENGG1300 Engineering Mechanics	Term 3	ENGG2500 Fluid Mechanics for Engineers	Term 3	CVEN3101 Engineering Operations and Control	Term 3	GMAT2120 Surveying and Geospatial Technology	Term 3	CVEN4051 (6 UoC) Thesis A <u>OR</u> CVEN4952 (4 UoC) Research Thesis B
	DESN1000 Engineering Design and Innovation		DESN2000 Engineering Design & Professional Practice		CVEN2303 Structural Analysis and Modelling		GMAT3420 Cadastral Surveying and Land Law		Discipline Elective Course*
	MATS1101 Engineering Materials and Chemistry		CVEN3202 Soil Mechanics		GMAT2550 Surveying Computations B		GMAT3500 Remote Sensing and Photogrammetry		Professional Elective
Term 1	ENGG1811 Computing for Engineers	Term 1	CVEN3203 Applied Geotechnics	Term 1	CVEN3303 Steel Structures	Term 1	GMAT3100 Surveying Applications and Design	Term 1	CVEN4953[^] Research Thesis C [^] (4 UoC)
	MATH1231 Mathematics 1B		GMAT2500 Surveying Computations A		CVEN3501 Water Resources Engineering		GMAT3150 Surveying Field Projects		Practice Elective <u>OR</u> Professional Elective <u>OR</u> Discipline Elective
					GMAT3220 Geospatial Information Systems				Practice Elective <u>OR</u> Professional Elective <u>OR</u> Discipline Elective

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Term 3	DESN1000 Engineering Design and Innovation	Term 3	ENGG2500 Fluid Mechanics for Engineers	Term 3	CVEN2303 Structural Analysis and Modelling	Term 3	CVEN3202 Soil Mechanics	Term 3	CVEN4050 (6 UoC) Thesis A OR CVEN4951 (4 UoC) Research Thesis A^
	MATH1131 Mathematics 1A OR MATH1141 Higher Mathematics 1A		MATH2018 Engineering Mathematics 2D OR MATH2019 Mathematics 2D (2E)		CVEN3101 Engineering Operations and Control		GMAT2120 Surveying and Geospatial Technology		GMAT3500 Remote Sensing and Photogrammetry
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		GMAT2550 Surveying Computations B				GMAT3420 Cadastral Surveying and Land Law		Discipline Elective Course*
Term 1	MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B	Term 1	ENGG2400 Mechanics of Solids	Term 1	CVEN3203 Applied Geotechnics	Term 1	CVEN3303 Steel Structures	Term 1	CVEN4051 (6 UoC) Thesis B OR CVEN4952 (4 UoC) Research Thesis A
	ENGG1811 Computing for Engineers		DESN2000 Engineering Design & Professional Practice		CVEN3501 Water Resources Engineering		GMAT3100 Surveying Applications and Design		Discipline Elective Course
	GMAT2500 Surveying Computations A		GMAT3220 Geospatial Information Systems		GMAT3150 Surveying Field Projects		Professional Elective Course		
Term 2	ENGG1300 Engineering Mechanics	Term 2	CVEN2101 Engineering Construction	Term 2	CVEN3502 Water and Wastewater Engineering	Term 2	CVEN3401 Sustainable Transport & Highway Engineering	Term 2	CVEN4953 (4 UoC) Research Thesis B
	GMAT1110 Surveying and Geospatial Engineering		CVEN2002 Engineering Computations		CVEN3304 Concrete Structures		GMAT2700 Foundations of Geodesy & Geospatial Ref Frames		Practice Elective OR Professional Elective OR Discipline Elective
	MATS1101 Engineering Materials and Chemistry				GMAT3700 Geodetic Positioning and Applications				Practice Elective OR Professional Elective OR Discipline Elective

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