

Engineering (Honours) / Surveying 3776 - T1 2026 Start

Program: Engineering (Hons) / Surveying [3776]

Year 1 Term 1

Course or Activity	Prerequisites	Credits
DESN1000 Introduction to Engineering Design and Innovation		6
<i>MATH1131 or MATH1141</i>		6
<i>PHYS1121 or PHYS1131</i>		6

Year 1 Term 2

Course or Activity	Prerequisites	Credits
ENGG1300 Engineering Mechanics		6
GMAT1110 Surveying and Geospatial Engineering		6
<i>MATH1231 or MATH1241</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
ENGG1811 Computing for Engineers		6
MATS1101 Engineering Materials and Chemistry		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
ENGG2400 Mechanics of Solids 1	ENGG1300	6
ENGG2500 Fluid Mechanics for Engineers		6
<i>MATH2018 or MATH2019</i>		6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
CVEN2002 Civil and Environmental Engineering Computations		6
CVEN2101 Engineering Construction		6
CVEN2303 Structural Analysis and Modelling	ENGG1300, ENGG2400	6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
CVEN3202 Soil Mechanics		6
DESN2000 Engineering Design and Professional Practice	DESN1000	6

Year 3 Term 1

Course or Activity	Prerequisites	Credits
CVEN3203 Applied Geotechnics and Engineering Geology	CVEN3202	6
CVEN3303 Steel Structures	ENGG1300, ENGG2400	6
GMAT2500 Surveying Computations A	GMAT1110	6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
CVEN3304 Concrete Structures	ENGG1300, ENGG2400	6
CVEN3401 Transport and Highway Engineering		6
GMAT2700 Foundations of Geodesy and Geospatial Reference Frames	GMAT1110	6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
CVEN3101 Engineering Operations and Control		6
GMAT2550 Surveying Computations B		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
CVEN3501 Water Resources Engineering		6
GMAT2120 Surveying and Geospatial Technology	GMAT2500, GMAT2700	6
GMAT3220 Geospatial Information Systems	GMAT1110	6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
CVEN3502 Water and Wastewater Engineering	ENGG2500	6
GMAT3700 Geodetic Positioning and Applications	GMAT2550, GMAT2700	6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
GMAT3420 Cadastral Surveying and Land Law	GMAT2500	6
GMAT3500 Remote Sensing and Photogrammetry		6
<i>Discipline Electives</i>		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
CVEN4050 Thesis A		6
GMAT3100 Surveying Applications and Design	GMAT2550, GMAT2120	6
GMAT3150 Surveying Field Projects	GMAT2550, GMAT2500	6

Year 5 Term 2

Course or Activity	Prerequisites	Credits
CVEN4051 Thesis B	CVEN4050	6

<i>Discipline Electives</i>		6
<i>Professional Electives</i>		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
ENGG4999 Industrial Training		0
<i>Civil Engineering</i>		6
<i>Civil Engineering</i>		6