

Bachelor Engineering (Honours) / Computer Science 3785 - Surveying - GMATDH - T1 2026 Start

Program: Engineering (Hons) / Comp Sci [3785]

Year 1 Term 1

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

Year 1 Term 2

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
GMAT1110 Surveying and Geospatial Engineering		6
<i>MATH1231 or MATH1241</i>		6

Year 1 Term 3

Course or Activity	Prerequisites	Credits
<i>COMP1521</i>		6
<i>MATH2018 or MATH2019</i>		6

Year 2 Term 1

Course or Activity	Prerequisites	Credits
COMP1531 Software Engineering Fundamentals	COMP1511	6
ENGG2500 Fluid Mechanics for Engineers		6
GMAT2500 Surveying Computations A	GMAT1110	6

Year 2 Term 2

Course or Activity	Prerequisites	Credits
CVEN2002 Civil and Environmental Engineering Computations		6
DESN2000 Engineering Design and Professional Practice	COMP2521, DESN1000, COMP1511	6
GMAT2700 Foundations of Geodesy and Geospatial Reference Frames	GMAT1110	6

Year 2 Term 3

Course or Activity	Prerequisites	Credits
COMP2521 Data Structures and Algorithms	COMP1511	6

<i>Computing Electives</i>		6
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Year 3 Term 1

Course or Activity	Prerequisites	Credits
COMP2511 Object-Oriented Design and Programming	COMP2521, COMP1531	6
<i>Discipline Elective</i>		6

Year 3 Term 2

Course or Activity	Prerequisites	Credits
<i>Computing Electives</i>		6
<i>Computing Electives</i>		6
<i>Discipline Elective</i>		6

Year 3 Term 3

Course or Activity	Prerequisites	Credits
GMAT2120 Surveying and Geospatial Technology	GMAT2500, GMAT2700	6
GMAT2550 Surveying Computations B		6
<i>COMP3121 or COMP3821</i>		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
GMAT3100 Surveying Applications and Design	GMAT2550, GMAT2120	6
GMAT3150 Surveying Field Projects	GMAT2550, GMAT2500	6
GMAT3220 Geospatial Information Systems	GMAT1110	6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
GMAT3700 Geodetic Positioning and Applications	GMAT2550, GMAT2700	6
<i>Discipline Elective</i>		6

Year 4 Term 3

Course or Activity	Prerequisites	Credits
CVEN3101 Engineering Operations and Control		6
GMAT3420 Cadastral Surveying and Land Law	GMAT2500	6
GMAT3500 Remote Sensing and Photogrammetry		6

Year 5 Term 1

Course or Activity	Prerequisites	Credits
COMP3900 Computer Science Project	COMP2521, COMP1531	6
CVEN3501 Water Resources Engineering		6
CVEN4951 Research Thesis A		4

Year 5 Term 2

Course or Activity	Prerequisites	Credits
CVEN4952 Research Thesis B	CVEN4951	4
<i>Computing Electives</i>		6
<i>Computing Electives</i>		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
COMP4920 Professional Issues and Ethics in Information Technology		6
CVEN4953 Research Thesis C	CVEN4952	4
ENGG4999 Industrial Training		0
GMAT4150 Field Projects 2	GMAT3150	6