Bachelor Engineering (Honours) / Computer Science 3785 - Surveying - GMATDH - T2 2026 Start

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

Year 1 Term 2

Course or Activity	Prerequisites	Credits
COMP1511 Programming Fundamentals		6
GMAT1110 Surveying and Geospatial Engineering		6

Year 1 Term 3

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

Year 2 Term 1

Course or Activity	Prerequisites	Credits
COMP1531 Software Engineering Fundamentals	COMP1511	6
GMAT2500 Surveying Computations A	GMAT1110	6
MATH1231 or MATH1241		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
GMAT2120 Surveying and Geospatial Technology	GMAT2500, GMAT2700	6
GMAT2550 Surveying Computations B		6
COMP1521		6

Year 3 Term 1

Course or Activity	Prerequisites	Credits
ENGG2500 Fluid Mechanics for Engineers		6

Course or Activity		Credits
MATH2018 or MATH2019		6

Year 3 Term 2

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

Year 3 Term 3

Course or Activity	Prerequisites	Credits
COMP2511 Object-Oriented Design and Programming	COMP2521, COMP1531	6
Computing Electives		6

Year 4 Term 1

Course or Activity	Prerequisites	Credits
GMAT3100 Surveying Applications and Design	GMAT2550, GMAT2120	6
Computing Electives		6
COMP3121 or COMP3821		6

Year 4 Term 2

Course or Activity	Prerequisites	Credits
COMP3900 Computer Science Project	COMP2521, COMP1531	6
GMAT3700 Geodetic Positioning and Applications	GMAT2550, GMAT2700	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
COMP4920 Professional Issues and Ethics in Information Technology		6
GMAT3150 Surveying Field Projects	GMAT2550, GMAT2500	6
GMAT3220 Geospatial Information Systems	GMAT1110	6

Year 5 Term 2

Course or Activity	Prerequisites	Credits
CVEN4951 Research Thesis A		4
Computing Electives		6
Computing Electives		6

Year 5 Term 3

Course or Activity	Prerequisites	Credits
CVEN3501 Water Resources Engineering		6
CVEN4952 Research Thesis B	CVEN4951	4
GMAT4150 Field Projects 2	GMAT3150	6

Year 6 Term 1

Course or Activity	Prerequisites	Credits
CVEN4953 Research Thesis C	CVEN4952	4
ENGG4999 Industrial Training		0
Computing Electives		6
Discipline Elective		6