

Engineering (Honours) / Surveying 3776 - T2 2026 Start

Program: Engineering (Hons) / Surveying [3776]

Year 1 Term 2

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| GMAT1110 Surveying and Geospatial Engineering | | 6 |
| MATH1131 Mathematics 1A | | 6 |
| <i>PHYS1121 or PHYS1131</i> | | 6 |

Year 1 Term 3

| Course or Activity | Prerequisites | Credits |
|--|---------------|---------|
| DESN1000 Introduction to Engineering Design and Innovation | | 6 |
| ENGG1300 Engineering Mechanics | MATH1131 | 6 |
| MATS1101 Engineering Materials and Chemistry | | 6 |

Year 2 Term 1

| Course or Activity | Prerequisites | Credits |
|----------------------------------|---------------|---------|
| ENGG1811 Computing for Engineers | | 6 |
| MATH1231 Mathematics 1B | MATH1131 | 6 |

Year 2 Term 2

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| CVEN2002 Civil and Environmental Engineering Computations | MATH1231 | 6 |
| ENGG2400 Mechanics of Solids 1 | ENGG1300 | 6 |
| MATH2018 Engineering Mathematics 2D | MATH1231 | 6 |

Year 2 Term 3

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| CVEN3202 Soil Mechanics | | 6 |
| DESN2000 Engineering Design and Professional Practice | DESN1000 | 6 |
| ENGG2500 Fluid Mechanics for Engineers | MATH1131 | 6 |

Year 3 Term 1

| Course or Activity | Prerequisites | Credits |
|--|---------------|---------|
| CVEN3203 Applied Geotechnics and Engineering Geology | CVEN3202 | 6 |
| GMAT2500 Surveying Computations A | GMAT1110 | 6 |

Year 3 Term 2

| Course or Activity | Prerequisites | Credits |
|---|---------------|---------|
| CVEN2101 Engineering Construction | | 6 |
| GMAT2700 Foundations of Geodesy and Geospatial Reference Frames | GMAT1110 | 6 |

Year 3 Term 3

| Course or Activity | Prerequisites | Credits |
|---|--------------------|---------|
| CVEN2303 Structural Analysis and Modelling | ENGG1300, ENGG2400 | 6 |
| CVEN3101 Engineering Operations and Control | | 6 |
| GMAT2550 Surveying Computations B | MATH1231 | 6 |

Year 4 Term 1

| Course or Activity | Prerequisites | Credits |
|---|--------------------|---------|
| CVEN3303 Steel Structures | ENGG1300, ENGG2400 | 6 |
| CVEN3501 Water Resources Engineering | | 6 |
| GMAT3220 Geospatial Information Systems | GMAT1110 | 6 |

Year 4 Term 2

| Course or Activity | Prerequisites | Credits |
|--|--------------------|---------|
| CVEN3304 Concrete Structures | ENGG1300, ENGG2400 | 6 |
| CVEN3401 Transport and Highway Engineering | | 6 |
| CVEN3502 Water and Wastewater Engineering | ENGG2500 | 6 |

Year 4 Term 3

| Course or Activity | Prerequisites | Credits |
|--|--------------------|---------|
| GMAT2120 Surveying and Geospatial Technology | GMAT2500, GMAT2700 | 6 |
| GMAT3420 Cadastral Surveying and Land Law | GMAT2500 | 6 |
| GMAT3500 Remote Sensing and Photogrammetry | | 6 |

Year 5 Term 1

| Course or Activity | Prerequisites | Credits |
|--|--------------------|---------|
| GMAT3100 Surveying Applications and Design | GMAT2550, GMAT2120 | 6 |
| GMAT3150 Surveying Field Projects | GMAT2550, GMAT2500 | 6 |

Year 5 Term 2

| Course or Activity | Prerequisites | Credits |
|--|--------------------|---------|
| CVEN4050 Thesis A | | 6 |
| GMAT3700 Geodetic Positioning and Applications | GMAT2550, GMAT2700 | 6 |
| <i>Discipline Electives</i> | | 6 |

Year 5 Term 3

| Course or Activity | Prerequisites | Credits |
|--------------------|---------------|---------|
| CVEN4051 Thesis B | CVEN4050 | 6 |

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

Year 6 Term 1

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