

## Bachelor Engineering (Honours) - 3707 - Surveying - GMATDH - T1 2026 Start

**Program:** Engineering (Honours) [3707]

### 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 |
|-----------------------------------------------|---------------|---------|
| GMAT1110 Surveying and Geospatial Engineering |               | 6       |
| <i>Free Electives</i>                         |               | 6       |
| <i>MATH1231 or MATH1241</i>                   |               | 6       |

### Year 1 Term 3

| Course or Activity               | Prerequisites | Credits |
|----------------------------------|---------------|---------|
| ENGG1811 Computing for Engineers |               | 6       |
| <i>General Education</i>         |               | 6       |

### Year 2 Term 1

| Course or Activity                     | Prerequisites | Credits |
|----------------------------------------|---------------|---------|
| ENGG2500 Fluid Mechanics for Engineers |               | 6       |
| GMAT2500 Surveying Computations A      | GMAT1110      | 6       |
| <i>MATH2018 or MATH2019</i>            |               | 6       |

### Year 2 Term 2

| Course or Activity                                              | Prerequisites | Credits |
|-----------------------------------------------------------------|---------------|---------|
| CVEN2002 Civil and Environmental Engineering Computations       |               | 6       |
| DESN2000 Engineering Design and Professional Practice           | DESN1000      | 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 |
|-----------------------------------|--|---|

### Year 3 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 3 Term 2

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

### Year 3 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 4 Term 1

| Course or Activity                   | Prerequisites | Credits |
|--------------------------------------|---------------|---------|
| CVEN3501 Water Resources Engineering |               | 6       |
| <i>Discipline Elective</i>           |               | 6       |
| <i>Thesis</i>                        |               | 6       |

### Year 4 Term 2

| Course or Activity         | Prerequisites | Credits |
|----------------------------|---------------|---------|
| <i>Discipline Elective</i> |               | 6       |
| <i>General Education</i>   |               | 6       |
| <i>Thesis</i>              |               | 6       |

### Year 4 Term 3

| Course or Activity           | Prerequisites | Credits |
|------------------------------|---------------|---------|
| ENGG4999 Industrial Training |               | 0       |
| GMAT4150 Field Projects 2    | GMAT3150      | 6       |
| <i>Surveying</i>             |               | 6       |