

## Bachelor Engineering (Honours) - 3707 - Software Engineering - SENGAI - T2 2026 Start

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

### Year 1 Term 2

| Course or Activity                | Prerequisites | Credits |
|-----------------------------------|---------------|---------|
| COMP1511 Programming Fundamentals |               | 6       |
| MATH1131 Mathematics 1A           |               | 6       |

### Year 1 Term 3

| Course or Activity                         | Prerequisites | Credits |
|--------------------------------------------|---------------|---------|
| COMP1521 Computer Systems Fundamentals     | COMP1511      | 6       |
| COMP1531 Software Engineering Fundamentals | COMP1511      | 6       |
| MATH1081 Discrete Mathematics              |               | 6       |

### Year 2 Term 1

| Course or Activity                                         | Prerequisites | Credits |
|------------------------------------------------------------|---------------|---------|
| COMP2521 Data Structures and Algorithms                    | COMP1511      | 6       |
| DESN1000 Introduction to Engineering Design and Innovation |               | 6       |
| <i>MATH1231 or MATH1241</i>                                |               | 6       |

### Year 2 Term 2

| Course or Activity                                    | Prerequisites                          | Credits |
|-------------------------------------------------------|----------------------------------------|---------|
| COMP2041 Software Construction: Techniques and Tools  | COMP1511                               | 6       |
| DESN2000 Engineering Design and Professional Practice | COMP2521, DESN1000, COMP1511, COMP1521 | 6       |
| MATH2400 Finite Mathematics                           | MATH1081                               | 3       |
| MATH2859 Probability, Statistics and Information      |                                        | 3       |

### Year 2 Term 3

| Course or Activity                              | Prerequisites      | Credits |
|-------------------------------------------------|--------------------|---------|
| COMP2511 Object-Oriented Design and Programming | COMP2521, COMP1531 | 6       |
| SENG2011 Workshop on Reasoning about Programs   | MATH1081           | 6       |
| <i>Free Electives</i>                           |                    | 6       |

### Year 3 Term 1

| Course or Activity | Prerequisites | Credits |
|--------------------|---------------|---------|
|--------------------|---------------|---------|

|                                           |          |   |
|-------------------------------------------|----------|---|
| SENG2021 Requirements and Design Workshop | COMP1531 | 6 |
| <i>General Education</i>                  |          | 6 |

### Year 3 Term 2

| Course or Activity                              | Prerequisites                | Credits |
|-------------------------------------------------|------------------------------|---------|
| COMP3142 Software Testing and Quality Assurance | COMP2521, COMP1531, COMP2511 | 6       |
| COMP3311 Database Systems                       | COMP2521                     | 6       |
| <i>Free Electives</i>                           |                              | 6       |

### Year 3 Term 3

| Course or Activity                          | Prerequisites | Credits |
|---------------------------------------------|---------------|---------|
| COMP3331 Computer Networks and Applications | COMP2521      | 6       |
| <i>General Education</i>                    |               | 6       |
| <i>Discipline Electives</i>                 |               | 6       |

### Year 4 Term 1

| Course or Activity                       | Prerequisites | Credits |
|------------------------------------------|---------------|---------|
| SENG3011 Software Engineering Workshop 3 | SENG2021      | 6       |
| <i>Discipline Electives</i>              |               | 6       |

### Year 4 Term 2

| Course or Activity          | Prerequisites | Credits |
|-----------------------------|---------------|---------|
| COMP4951 Research Thesis A  |               | 4       |
| <i>Discipline Electives</i> |               | 6       |
| <i>Discipline Electives</i> |               | 6       |

### Year 4 Term 3

| Course or Activity             | Prerequisites | Credits |
|--------------------------------|---------------|---------|
| COMP4952 Research Thesis B     | COMP4951      | 4       |
| SENG4920 Ethics and Management | COMP2511      | 6       |
| <i>Discipline Electives</i>    |               | 6       |

### Year 5 Term 1

| Course or Activity           | Prerequisites | Credits |
|------------------------------|---------------|---------|
| COMP4953 Research Thesis C   | COMP4952      | 4       |
| ENGG4999 Industrial Training |               | 0       |
| <i>Free Elective</i>         |               | 6       |
| <i>Discipline Electives</i>  |               | 6       |