# Bachelor of Engineering (Honours) / Computer Science (3785)

## Renewable Energy Engineering (SOLABH) / Computer Science (COMPA1)

### T1 Entry 2024 Sample Plan

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 1</strong></td>
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<tr>
<td>COMP1511 Programming Fundamentals</td>
<td>COMP1531 Software Engineering Fundamentals</td>
<td>COMP321 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis</td>
<td>SOLA4122 Strategic Leadership and Ethics</td>
<td>SOLA4951 Research Thesis A</td>
</tr>
<tr>
<td>PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A</td>
<td>MATH2089 Numerical Methods and Statistics</td>
<td>SOLA2051 Project in Photovoltaics and Renewable Energy</td>
<td>SOLA5053 Wind Energy Converters</td>
<td>Computing Elective</td>
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<tr>
<td><strong>Term 2</strong></td>
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<tr>
<td>PHYS1121 Physics 1B OR MATH1241 Higher Mathematics 1B</td>
<td>COMP2521 Data Structures and Algorithms</td>
<td>SOLA5057 Energy Efficiency</td>
<td>SOLA5053 Wind Energy Converters</td>
<td>Strand Elective</td>
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<tr>
<td><strong>Term 3</strong></td>
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<tr>
<td>DESN1000 Introduction to Engineering Design and Innovation</td>
<td>MMAN2700 Thermodynamics</td>
<td>COMP3900 Computer Science Project</td>
<td>Strand Elective</td>
<td>Computing Elective</td>
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<tr>
<td>ELEC2911 Power Engineering for Renewable Energy</td>
<td>ELEC4122 Strategic Leadership and Ethics</td>
<td>COMP4900 Professional Issues and Ethics in Information Technology</td>
<td>Computing Elective</td>
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</tr>
<tr>
<td>SOLA4953 Research Thesis C</td>
<td>Strand Elective</td>
<td>Computing Elective</td>
<td>Computing Elective</td>
<td>Computing Elective</td>
</tr>
</tbody>
</table>

**NOTES**

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Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G
# Bachelor of Engineering (Honours) / Computer Science (3785)

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## T2 Entry 2024 Sample Plan

### Year 1

**Term 1**
- MATH1231 Mathematics 1B OR MATH1241 Higher Mathematics 1B
- PHYS1221 Physics 1B OR PHYS1231 Higher Physics 1B
- ELEC1111 Electrical Circuit Fundamentals

**Term 2**
- COMP1511 Programming Fundamentals
- MATH1131 Mathematics 1A
- PHYS1121 Physics 1A
- DESN1000 Introduction to Engineering Design and Innovation
- COMP1531 Software Engineering Fundamentals

### Year 2

**Term 1**
- MATH1231 Engineering Mathematics 2E
- SOLA2540 Applied Photovoltaics
- MMAN2700 Thermodynamics

**Term 2**
- COMP1521 Computer Systems Fundamentals
- SOLA1070 Sustainable Energy
- COMP2521 Data Structures and Algorithms
- DESN2000 Engineering Design and Professional Practice
- MATH2089 Numerical Methods and Statistics

**Term 3**
- COMP2511 Object-Oriented Design and Programming
- COMP4820 Professional Issues and Ethics in Information Technology
- ELEC2911 Power Engineering for Renewable Energy
- COMP3900 Computer Science Project
- ELEC4122 Strategic Leadership and Ethics

### Year 3

**Term 1**
- COMP3121 Algorithm Design and Analysis OR COMP3821 Extended Algorithm Design and Analysis
- MATH2019 Engineering Mathematics 2E

**Term 2**
- SOLA2051 Project in Photovoltaics and Renewable Energy
- COMP3511 Energy Efficiency
- SOLA0507 Energy Efficiency
- SOLA4012 Photovoltaic Systems Design
- Disciplinary Elective

**Term 3**
- SOLA2052 Professional Issues and Ethics in Information Technology
- ELEC2911 Power Engineering for Renewable Energy
- COMP3900 Computer Science Project
- Wind Energy Converters
- Computing Elective

### Year 4

**Term 1**
- COMP4920 Professional Issues and Ethics in Information Technology
- ELEC2911 Power Engineering for Renewable Energy

**Term 2**
- SOLA5050 Renewable Energy Policy
- SOLA5053 Wind Energy Converters
- Computing Elective

**Term 3**
- SOLA4951 Research Thesis A
- Strand Elective
- Computing Elective

### Year 5

**Term 1**
- SOLA4952 Research Thesis B

**Term 2**
- SOLA4953 Research Thesis C

**Term 3**
- Strand Elective
- Disciplinary Elective

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**Notes**

- Students can take MATH1131 or MATH1141 depending on term offerings.
- SOLA2540 Applied Photovoltaics
- SOLA2051 Project in Photovoltaics and Renewable Energy
- COMP2521 Data Structures and Algorithms
- COMP1521 Computer Systems Fundamentals
- DESN1000 Introduction to Engineering Design and Innovation
- COMP5121 Object-Oriented Design and Programming

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## T3 Entry 2024 Sample Plan

### Year 1

**Term 1**
- **COMP1511** Programming Fundamentals
- **MATH1131** Mathematics 1A
- **PHYS1121** Physics 1A
- **DESN1000** Introduction to Engineering Design and Innovation
- **SOLA1070** Sustainable Energy

**Term 2**
- **COMP1521** Computer Systems Fundamentals
- **MATH1231** Mathematics 1B
- **PHYS1221** Physics 1B

### Year 2

**Term 3**
- **COMP1531** Software Engineering Fundamentals
- **ELEC1111** Electrical Circuit Fundamentals
- **COMP2521** Data Structures and Algorithms
- **MMAN2700** Thermodynamics

**Term 4**
- **COMP2511** Object-Oriented Design and Programming
- **SOLA2051** Project in Photovoltaics and Renewable Energy

### Year 3

**Term 3**
- **SOLA2540** Applied Photovoltaics
- **COMP3121** Algorithm Design and Analysis
- **ELEC2911** Power Engineering for Renewable Energy
- **DESN2000** Engineering Design and Professional Practice

**Term 4**
- **COMP4910** Professional Issues and Ethics in Information Technology
- **SOLA4012** Photovoltaic Systems Design

### Year 4

**Term 3**
- **SOLA5050** Renewable Energy Policy
- **SOLA5053** Wind Energy Converters

**Term 4**
- **SOLA5057** Energy Efficiency

### Year 5

**Term 3**
- **SOLA4951** Research Thesis A

**Term 4**
- **SOLA4952** Research Thesis B

**Term 5**
- **SOLA4953** Research Thesis C

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