

## Varsity College Year 12 Engineering 2025

### Term 1

Week	Date	Topics	Assessment
1	27-31 January O-Week Australia Day: Monday	<ul style="list-style-type: none"> <li>Week Activities</li> <li>Project Work – Related Theory, Success Criteria and Project Management</li> </ul>	
2	3-7 February	<ul style="list-style-type: none"> <li>Project Work – Related Theory, Success Criteria and Project Management</li> </ul>	
3	10-14 February Swimming Carnival: Tuesday Y11,12 Parent Information Session: Monday	<ul style="list-style-type: none"> <li>Project Work – Material Testing</li> </ul>	
4	17-21 February	<ul style="list-style-type: none"> <li>Project Work – Ideation and Working Drawings</li> </ul>	
5	24-28 February	<ul style="list-style-type: none"> <li>Project Work – Prototyping</li> </ul>	Draft due
6	3-7 March GCS25: Wednesday	<ul style="list-style-type: none"> <li>Project Work – Prototyping</li> </ul>	
7	10-14 March	<ul style="list-style-type: none"> <li>Project Work – Final Prototype Testing</li> </ul>	
8	17-21 March	<ul style="list-style-type: none"> <li>Project Work – Evaluation</li> </ul>	
9	24-28 March	<ul style="list-style-type: none"> <li>Project Work – Recommendations and Summary Report</li> </ul>	Project folio due lesson 3
10	31 March - 4 April Cross Country Carnival: Thursday	<b>EXAM BLOCK</b>	
<b>School holidays: Friday April 4 - Sunday April 19</b>			

**Term 2**

Week	Date	Topics	Assessment
1	21-25 April Easter Monday ANZAC Day: Friday	<b>UNIT 4: Machines in Society</b> <ul style="list-style-type: none"> <li>• Types of Motion</li> <li>• Simple Machines - Mechanical Advantage, Velocity Ratio and Efficiency</li> </ul>	
2	28 April-2 May GCS25: Tuesday	<ul style="list-style-type: none"> <li>• Levers</li> <li>• Gears</li> <li>• Pulleys</li> </ul>	
3	5-9 May Labour Day: Monday	<ul style="list-style-type: none"> <li>• Inclined Planes and Screws</li> <li>• Wheel and Axle</li> <li>• Work, Energy and Power</li> </ul>	
4	12-16 May Parent Teacher Interviews: Monday	<ul style="list-style-type: none"> <li>• Project Work – Related Theory, Success Criteria and Project Management</li> </ul>	
5	19-23 May	<ul style="list-style-type: none"> <li>• Revision of Linear Motion</li> <li>• Friction</li> </ul>	
6	26-30 May	<ul style="list-style-type: none"> <li>• Project Work – Related Theory, Success Criteria and Project Management</li> </ul>	
7	2-6 June GCS25: Wednesday	<ul style="list-style-type: none"> <li>• Project Work – Material Testing</li> <li>• Revision of Logic Gates</li> <li>• Creating Logic Circuits</li> </ul>	
8	9-13 June GCS25: Wednesday	<ul style="list-style-type: none"> <li>• Project Work – Ideation and Working Drawings</li> </ul>	
9	16-20 June	<ul style="list-style-type: none"> <li>• Project Work - Prototyping</li> </ul>	Draft due
10	23-27 June	<ul style="list-style-type: none"> <li>• Project Work – Final Prototype Testing</li> </ul>	
<b>School holidays: Saturday June 28 - Sunday July 13</b>			

**Term 3**

Week	Date	Topics	Assessment
1	14-18 July	<ul style="list-style-type: none"> <li>Project Work – Evaluation</li> </ul>	
2	<b>21-25 July</b> Future Pathways Expo Y11, 12 Parent Information Session: Wednesday	<ul style="list-style-type: none"> <li>Project Work – Recommendations and Summary Report</li> </ul>	<b>Project Folio due lesson 3</b>
3	<b>28 July-1 August</b> Parent Teacher Interviews: Monday	<ul style="list-style-type: none"> <li>Classification of Materials</li> <li>Stress and Strain</li> </ul>	
4	<b>4-8 August</b>	<ul style="list-style-type: none"> <li>Phase Diagrams</li> <li>Compositions and Proportions of Alloys</li> </ul>	
5	<b>11-15 August</b> GCS25: Tuesday	<ul style="list-style-type: none"> <li>Solidification and Microstructures of Alloys</li> <li>Complete Solid Solubility Lead-Tin Phase Diagram</li> <li>Complete Solid Insolubility</li> </ul>	
6	<b>18-22 August</b> GC25 (Finals): Tuesday	<ul style="list-style-type: none"> <li>Partial Solid Solubility</li> <li>Iron-Carbide Phase Diagram</li> </ul>	
7	<b>25-29 August</b> GC Show Day: Friday	<ul style="list-style-type: none"> <li>Plastics</li> </ul>	
8	<b>1-5 September</b>	<ul style="list-style-type: none"> <li>Exam Revision</li> </ul>	
9	<b>8-12 September</b>	<b>MOCK EXAMS</b>	<b>Mock exam</b>
10	<b>15-19 September</b>	<b>MOCK EXAMS</b>	
<b>School holidays: Saturday September 20 – Sunday October 4</b>			

### Term 4

Week	Date	Topics	Assessment
1	6-10 October <small>King's Birthday: Monday</small>	<ul style="list-style-type: none"> <li>EA revision and preparation</li> </ul>	
2	13-17 October	<ul style="list-style-type: none"> <li>EA revision and preparation</li> </ul>	
3	20-24 October	<ul style="list-style-type: none"> <li>EA revision and preparation</li> </ul>	
4	27-31 October	<b>EXTERNAL EXAMS</b>	<b>External Assessment: Unit 4</b>
5	3-7 November		
6	10-14 November		
7	17-21 November	<b>Final Week Events</b>	