



Photovoltaics and Solar Energy Engineering /  
Computer Science

3785 - Engineering (Honours) Photovoltaics and Solar Energy Engineering / Computer Science - 240 UoC

In this dual degree program, students take all 168 UoC of core courses from the Bachelor of Engineering (Honours) 3707 and all 96 UoC of core courses from the Bachelor of Science (Computer Science) 3778. Due to the overlap of 24 UoC of Science core courses, the total UoC required for completion is 240 UoC, rather than 264 UoC (see the UNSW Handbook for more details).

Some courses are double counted. Additionally, the overlap requires students to replace the usual course in one core or major with a more advanced course required in the other program.

Specifically:

1. Students MUST take COMP1511 as their first year Engineering computing course, COMP1511 is then double counted towards both degrees
2. Students are required to complete MATH1131 or MATH1141, and MATH1231 or MATH1241. The two Maths course are double counted towards both degrees.
3. MATH1081 is a core requirement Bachelor of Computer Science but is replaced by the 2nd Year Maths course taken in the BE(Hons) Major

| Course                                  | UoC | Complete? | Notes |
|---|-----|-----------|-------|
| <b>Core Courses - 24 UoC</b>            |     |           |       |
| COMP1511                                | 6   |           |       |
| MATH1131 or MATH1141                    | 6   |           |       |
| MATH1231 or MATH1241                    | 6   |           |       |
| MATH2018 or MATH2019                    | 6   |           |       |
| UoC Sub Total                           | 24  |           |       |
| <b>Disciplinary Component - 144 UoC</b> |     |           |       |
| Level 1 Core Courses                    |     |           |       |
| DESN1000                                | 6   |           |       |
| MATS1101                                | 6   |           |       |
| PHYS1121 or PHYS1131                    | 6   |           |       |
| PHYS1221 or PHYS1231                    | 6   |           |       |
| Level 2 Core Courses                    |     |           |       |
| DESN2000                                | 6   |           |       |
| MATH2089                                | 6   |           |       |
| SOLA2051                                | 6   |           |       |
| SOLA2060                                | 6   |           |       |
| SOLA2540                                | 6   |           |       |
| Level 3 Core Courses                    |     |           |       |
| SOLA3010                                | 6   |           |       |
| SOLA3020                                | 6   |           |       |
| SOLA3507                                | 6   |           |       |
| Level 4 Core Courses                    |     |           |       |
| ELEC4122                                | 6   |           |       |
| SOLA4012                                | 6   |           |       |
| SOLA4951                                | 4   |           |       |
| SOLA4952                                | 4   |           |       |
| SOLA4953                                | 4   |           |       |
| SOLA5057                                | 6   |           |       |
| Electives                               |     |           |       |
| Discipline Elective                     | 6   |           |       |
| Discipline Elective                     | 6   |           |       |
| Discipline Elective                     | 6   |           |       |
| Discipline Elective                     | 6   |           |       |
| Strand Electives                        | 6   |           |       |
| Strand Electives                        | 6   |           |       |
| Strand Electives                        | 6   |           |       |
| Industrial Training                     |     |           |       |
| 60 Days Industrial Training             |     |           |       |
| UoC Sub Total                           | 144 |           |       |

IN ADDITION TO THE 24 CORE AND 144 DISCIPLINARY UNITS ABOVE, STUDENTS MUST COMPLETE 72 UoC FROM A COMPUTER SCIENCE STREAM, COMPA1 IS THE DEFAULT STREAM FOR THIS PROGRAM

| <b>COMPA1 - Computer Science - 72 UoC</b> |     |  |  |
|---|-----|--|--|
| COMP1521                                  | 6   |  |  |
| COMP1531                                  | 6   |  |  |
| COMP2521                                  | 6   |  |  |
| COMP2511                                  | 6   |  |  |
| COMP3121                                  | 6   |  |  |
| COMP3900                                  | 6   |  |  |
| COMP4920                                  | 6   |  |  |
| Computing Elective                        | 6   |  |  |
| Computing Elective                        | 6   |  |  |
| Computing Elective                        | 6   |  |  |
| Computing Elective                        | 6   |  |  |
| Computing Elective                        | 6   |  |  |
| UoC Sub Total                             | 72  |  |  |
| UoC Total                                 | 240 |  |  |