



Sample Study Outline

# Photovoltaics & Solar Energy Engineering

Program / Degree: [3707 B.E Hons \(Photovoltaics\)](#)

Year	Term 1	UOC	Term 2	UOC	Term 3	UOC
1 <sup>st</sup>	MATH1131 Maths 1A <b>OR</b> MATH1141 Higher Maths 1A	6	ENGG1811* Computing for Engineers <b>OR</b> COMP1511 Programming Fundamentals <b>OR</b> COMP1911 Computing 1A	6 6	PHYS1221 Physics 1B <b>OR</b> PHYS1231 Higher Physics 1B	6
	PHYS1121 Physics 1A <b>OR</b> PHYS1131 Higher Physics 1A	6	SOLA1070# Sustainable Energy	6	MATS1101 Engineering Materials and Chem	6
	DESN1000 Engineering Design and Innovation	6	MATH1231 Maths 1B <b>OR</b> MATH1241 Higher Maths 1B		ELEC1111# Electrical Circuit Fundamentals	6
	Total UOC	18	Total UOC	18	Total UOC	18
2 <sup>nd</sup>	SOLA2060 Introduction to Electronic Devices	6	SOLA2051 Project in PV and RE	6	DESN2000 Engineering Design & Professional Practice	6
	MATH2018 Engineering Maths 2D <b>OR</b> MATH2019 Engineering Maths 2E	6	<i>General Education Elective</i>	6	<b>ENGG4909 Industry Training 1</b>	<b>12</b>
	SOLA2540 Applied PV	6	<i>General Education Elective</i>	6		
	Total UOC	18	Total UOC	18	Total UOC(6 + 12 nominal)	18
3 <sup>rd</sup>	MATH2089 Numerical Methods and Stats	6	SOLA3010 Low Energy Buildings and PV	6	<i>Discipline Elective</i>	6
	<i>Strand Elective</i>	6	<b>SOLA3020 PV Technology &amp; Manufacturing</b>	6	<i>Discipline Elective</i>	6
		6	<i>Strand Elective</i>	6	<i>Strand Elective</i>	6
	Total UOC	18	Total UOC	18	Total UOC	18
4 <sup>th</sup>	<b>ENGG4902 Industry Training 2A</b> <b>SOLA3507 Solar Cells</b>	<b>12</b> 6	<b>ENGG4903 Industry Training 2B</b> <b>ENGG4904 Industry Training 3A</b>	<b>6</b> <b>6</b>	<b>ENGG4905 Industry Training 3B</b>	<b>12</b>
	Total UOC (nominal)	12	Total UOC (nominal)	12	Total UOC (nominal)	12
5 <sup>th</sup>	SOLA4951 Thesis A	4	SOLA4952 Thesis B	4	SOLA4953 Thesis C	4
	ELEC4122 Strategic Leadership and Ethics	6	SOLA4012 PV Systems Design	6	<i>Discipline Elective</i>	6
	<i>Discipline Elective</i>	6	SOLA5057 Energy Efficiency	6		
	Total UOC	16	Total UOC	16	Total UOC	10

\* Students doing a Computing Strand should take COMP1911.

# SOLA1070 and ELEC1111 are strongly recommended L1 electives.

**Notes:**

- This is a **SAMPLE** study outline only and can be subject to change. Please note that SOLA3507 will be offered in T1 odd year and SOLA3020 will be offered in T2 even year from 2024 onwards so you may need to adjust your study plan.
- You must always take your Industry Training schedule into consideration when planning your course enrolment or other commitments (see diagram below).
- Discipline Electives: a comprehensive list of approved Discipline Electives can be viewed in the handbook <https://www.handbook.unsw.edu.au/undergraduate/specialisations/2023/SOLAAH?year=2023>
- Strand Electives: a comprehensive list of approved Strand Electives can be obtained from the School.

**Resources:**

- UNSW Handbook: <https://www.handbook.unsw.edu.au/undergraduate/specialisations/2023/SOLAAH?year=2024>
- School: <https://unsw.sharepoint.com/sites/SPREESTudentInfo>
- Co-op: <http://www.coop.unsw.edu.au/programs/photovoltaics-phv-renewable-energy-ren>

**Co-op Academic Coordinator**

For enrolment related questions please always contact your Co-op Academic Coordinator in the first instance:

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**When would I be on Industry Training (IT)?**

