

Sample Study Outline

# Electrical Engineering

Program / Degree: 3707 B. Engineering (Electrical Engineering)

Year	Term 1	UOC	Term 2	UOC	Term 3	UOC
1 <sup>st</sup>	MATH1131 Maths 1A OR MATH1141 Higher Maths 1A DESN1000 Engineering Design and Innovation ELEC1111 Electrical and Telecommunications Engineering	6 6 6	COMP1511 Introduction to Programming PHYS1131 Higher Physics 1A MATH1231 Maths 1B <b>OR</b> MATH1241 Higher Maths 1B	6 6 6	PHYS1231 Higher Physics 1B COMP1521 Computer Systems Fundamentals Gen Ed	6 6 6
	Total UOC	18	Total UOC	18	Total UOC	18
2 <sup>nd</sup>	ELEC2141 Digital Circuit Design ELEC2134 Circuits and Signals MATH2069 Mathematics 2A	6 6 6	ELEC2133 Analogue Electronics DESN2000 Engineering Design and Professional Practice MATH2099 Mathematics 2B	6 6 6	<b>ENGG4901 Co-op Industry Training 1</b>	<b>12</b>
	Total UOC	18	Total UOC	18	Total UOC (nominal)	12
3 <sup>rd</sup>	ELEC3115 Electromagnetic Engineering TELE3113 Analogue & Digital Comms ELEC3106 Electronics	6 6 6	ELEC3105 Electrical Energy ELEC3114 Control Systems ELEC3117 Electrical Engineering Design	6 6 6	<i>Gen Ed</i> ELEC3104 Digital Signal Processing Elective	6 6 6
	Total UOC	18	Total UOC	18	Total UOC	18
4 <sup>th</sup>	<b>ENGG4902 Co-op Industry Training 2A</b>	<b>12</b>	<b>ENGG4902 Co-op Industry Training 2B</b> <b>ENGG4902 Co-op Industry Training 3A</b>	<b>6</b> <b>6</b>	<b>ENGG4902 Co-op Industry Training 3B</b>	<b>12</b>
	Total UOC (nominal)	12	Total UOC (nominal)	12	Total UOC (nominal)	12
5 <sup>th</sup>	ELEC4951 Research Thesis A ELEC4122 Strategic Leadership & Ethics ELEC4123 Electrical Design	4 6 6	ELEC4952 Thesis B Discipline Elective Level 4 Elective	4 6 6	ELEC4953 Thesis C Discipline Elective Level 4 Elective	4 6 6
	Total UOC	16	Total UOC	16	Total UOC	16

**Notes:**

- This is a **SAMPLE** study outline only and can be subject to change.
- You must always take your Industry Training schedule into consideration when planning your course enrolment or other commitments (see diagram below).
- Note that there are 8 electives. These must include exactly 2 general education electives, at most 2 L1 electives, and at least 2 L4 electives. The balance of required electives can be either L3 or L4.
  - For L1 electives, see <https://www.engineering.unsw.edu.au/first-year-engineering-electives-list>
  - For L3 & L4 electives, see [Handbook - Electrical Engineering \(unsw.edu.au\)](https://www.unsw.edu.au/handbook/electrical-engineering)

**Resources:**

- UNSW Handbook: <https://www.handbook.unsw.edu.au/undergraduate/specialisations/2022/ELECAH?year=2022>
- School: <https://www.engineering.unsw.edu.au/study-with-us/undergraduate-degrees/electrical-engineering>
- Co-op: <https://www.coop.unsw.edu.au/programs/electrical-engineering-elc-and-telecommunications-elt>

**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)?**

