

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

Photovoltaics and Solar Energy (SOLA AH) / Computer Science (COMPA1)

T1 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 1	COMP1511 Programming Fundamentals	Term 1	COMP1521 Computer Systems Fundamentals	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	SOLA3507 Solar Cells	Term 1	SOLA4951 Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E		SOLA2060 Introduction to Electronic Devices		ELEC4122 Strategic Leadership and Ethics		Discipline Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics		Stand Elective		Stand Elective		Computing Elective
Term 2	COMP1531 Software Engineering Fundamentals	Term 2	COMP2521 Data Structures and Algorithms	Term 2	SOLA3010 Low Energy Buildings and Photovoltaics	Term 2	SOLA4012 Photovoltaic Systems Design	Term 2	SOLA4952 Research Thesis B
	MATS1101 Engineering Materials and Chemistry		SOLA2051 Project in Photovoltaics and Renewable Energy		SOLA3020 Photovoltaic Technology and Manufacturing		SOLA5057 Energy Efficiency		Discipline Elective
Term 3	DESN1000 Introduction to Engineering Design and Innovation	Term 3	SOLA2540 Applied Photovoltaics	Term 3	COMP3900 Computer Science Project	Term 3	Discipline Elective	Term 3	SOLA4953 Research Thesis C
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		COMP2511 Object-Oriented Design and Programming		COMP4920 Professional Issues and Ethics in Information Technology		Discipline Elective		Computing Elective
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B		DESN2000 Engineering Design and Professional Practice						Computing Elective

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

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T2 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 2	COMP1511 Programming Fundamentals	Term 2	COMP1521 Computer Systems Fundamentals	Term 2	SOLA3010 Low Energy Buildings and Photovoltaics	Term 2	SOLA4012 Photovoltaic Systems Design	Term 2	SOLA4951 Research Thesis A
	MATS1101 Engineering Materials and Chemistry		COMP2521 Data Structures and Algorithms		SOLA3020 Photovoltaic Technology and Manufacturing		SOLA5057 Energy Efficiency		Discipline Elective
	COMP1531 Software Engineering Fundamentals		SOLA2051 Project in Photovoltaics and Renewable Energy		COMP2511 Object-Oriented Design and Programming		Strand Elective		Computing Elective
Term 3	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A	Term 3	MATH2089 Numerical Methods and Statistics	Term 3	COMP4920 Professional Issues and Ethics in Information Technology	Term 3	Discipline Elective	Term 3	SOLA4952 Research Thesis B
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		DESN2000 Engineering Design and Professional Practice		Discipline Elective		Computing Elective		
	DESN1000 Introduction to Engineering Design and Innovation								
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	ELEC4122 Strategic Leadership and Ethics	Term 1	SOLA4953 Research Thesis C
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B		SOLA2060 Introduction to Electronic Devices		COMP3900 Computer Science Project		Strand Elective		Computing Elective
			SOLA2540 Applied Photovoltaics		SOLA3507 Solar Cells		Strand Elective		Computing Elective

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T3 Entry 2025 Sample Plan



Year 1		Year 2		Year 3		Year 4		Year 5	
Term 3	COMP1511 Programming Fundamentals	Term 3	COMP1531 Software Engineering Fundamentals	Term 3	SOLA2540 Applied Photovoltaics	Term 3	Discipline Elective	Term 3	SOLA4951 Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		DESN2000 Engineering Design and Professional Practice		COMP2511 Object-Oriented Design and Programming		Stand Elective		Discipline Elective
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics				Discipline Elective		Computing Elective
Term 1	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	MATH2018 Engineering Mathematics 2D <u>OR</u> MATH2019 Engineering Mathematics 2E	Term 1	COMP3121 Algorithm Design and Analysis <u>OR</u> COMP3821 Extended Algorithm Design and Analysis	Term 1	Stand Elective	Term 1	SOLA4952 Research Thesis B
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B		COMP2521 Data Structures and Algorithms		SOLA3507 Solar Cells		Stand Elective		Discipline Elective
	DESN1000 Introduction to Engineering Design and Innovation		SOLA2060 Introduction to Electronic Devices		ELEC4122 Strategic Leadership and Ethics				Computing Elective
Term 2	MATS1101 Engineering Materials and Chemistry	Term 2	SOLA2051 Project in Photovoltaics and Renewable Energy	Term 2	COMP3900 Computer Science Project	Term 2	SOLA4012 Photovoltaic Systems Design	Term 2	SOLA4953 Research Thesis C
	COMP1521 Computer Systems Fundamentals		SOLA3010 Low Energy Buildings and Photovoltaics		COMP4920 Professional Issues and Ethics in Information Technology		SOLA5057 Energy Efficiency		Computing Elective
					SOLA3020 Photovoltaic Technology and Manufacturing		Computing Elective		Computing Elective

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