Engineering

Bachelor of Engineering (Honours) / Science (3767) Aerospace Engineering (AEROAH) / Physics (PHYSL1) T1 Entry 2025 Sample Plan

Year 1 Year 2			Year 3		Year 4		Year 5		
Term 1	DESN1000 Introduction to Engineering Design and Innovation	Term 1	MMAN2700 Thermodynamics	Term 1	AERO3410 Aerospace Structures	Term 1	PHYS3112 Experimental and Computational Physics	Term 1	MMAN4951 Research Thesis A
	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ELEC1111 Electrical Circuit Fundamentals		PHYS2111 Quantum Physics		AERO3630 Aerodynamics		AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics
	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		MATH2089 Numerical Methods and Statistics		Employability Experience Course		AERO3660 Flight Performance and Propulsion		PHYS3113 Thermal Physics and Statistical Mechanics
	SCIF0000 (0 UoC) Introduction to University	Term 2	ENGG2400 Mechanics of Solids 1	Term 2	AERO3110 Aerospace Design 1	Term 2	MMAN3200	Term 2	MMAN4952 Research Thesis B
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B		PHYS2114		DESN3000 Strategic Design Innovation		Linear Systems and Control PHYS3111 Quantum Mechanics		Physics Elective
Term 2	MMAN1130 Design and Manufacturing		Electromagnetism		MATH2121 Theory and Applications of				Discipline Elective
					Differential Equations <u>OR MATH2221 Higher</u> Theory and Applications of Differential Equations		Physics Elective		MMAN4953 Research Thesis C
	ENGG1300 Engineering Mechanics		ENGG2500 Fluid Mechanics for Engineers		MATH2069 Mathematics 2A	Term 3	AERO4110 Aerospace Design 2	Term 3	SCIF3010 (0 UoC) Graduation Portfolio
Term 3	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B	Term	DESN2000	Term 3			SCIF1000		
	ENGG1811 Computing for Engineers <u>OR</u>	3	Engineering Design and Professional Practice		Employability Experience Course		Skills in Science		Recommended Discipline Elective*
	COMP1511 Programming Fundamentals <u>OR</u> COMP1911 Computing 1A	MMAN2300 Engineering Mechanics 2						Discipline Elective	

ES	This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.								
0 1 1	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999								
Ž	*At least 6 UOC of discipline electives must be chosen from the "recommended discipline elective" list.								

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Engineering Bachelor of Engineering (Honours) / Science (3767) Aerospace Engineering (AEROAH) / Physics (PHYSL1)

T2 Entry 2025 Sample Plan

Year 1		Year 2		Year 3		Year 4		Year 5		
	MATH1131 Mathematics 1A	Term 2	ENGG2400 Mechanics of Solids 1	Term 2	AERO3110 Aerospace Design 1		MMAN3200 Linear Systems and Control	Term 2	MMAN4951 Research Thesis A	
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A		Term MMAN1130 2 Design and Manufacturing		DESN3000 Strategic Design Innovation	Term 2	PHYS3111 Ouantum Mechanics		Physics Elective	
Term 2	ENGG1811 Computing for Engineers <u>OR</u> COMP1511 Programming Fundamentals <u>OR</u>				PHYS2114 Electromagnetism		MATH2121 Theory and Applications of Differential Equations <u>OR</u> MATH2221 Higher		Recommended Discipline Elective*	
	COMP1911 Computing 1A SCIF0000 (0 UoC) Introduction to University		DESN2000		MATH2069		Theory and Applications of Differential Equations SCIF1000	Term 3	MMAN4952 Research Thesis B	
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term	Engineering Design and Professional Practice ENGG2500 Term	Term	Mathematics 2A	Term	Skills in Science Employability Experience Course		AERO4110 Aerospace Design 2	
Term	ENGG1300	3	3	Fluid Mechanics for Engineers	3	Employability Experience Course	3			Discipline Elective
3	Engineering Mechanics DESN1000		MMAN2300 Engineering Mechanics 2				Physics Elective		MMAN4953 Research Thesis C	
	Introduction to Engineering Design and Innovation ELEC1111	Term 1		MMAN2700 Thermodynamics		AERO3410 Aerospace Structures		PHYS3112 Experimental and Computational Physics		PHYS3113 Thermal Physics and Statistical Mechanics
Term 1	Electrical Circuit Fundamentals PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B		MATH2089 Numerical Methods and Statistics	Term 1	AERO3630 Aerodynamics	Term 1	Discipline Elective	Term 1	AERO4620 Dynamics of Aerospace Vehicles, Systems and Avionics	
			PHYS2111		AERO3660 Flight Performance and Propulsion				SCIF3010 (0 UoC) Graduation Portfolio	

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OTE	Compulsory Training Component: There is a program requirement of 60 days approved Industrial Training ENGG4999								
ž	*At least 6 UOC of discipline electives must be chosen from the "recommended discipline elective" list.								

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Engineering Bachelor of Engineering (Honours) / Science (3767) <u>Aerospace Engineering (AEROAH)</u> / <u>Physics (PHYSL1)</u>

T3 Entry 2025 Sample Plan

Year 1		Year 2 Year 3			Year 4		Year 5		
	DESN1000 Introduction to Engineering Design and Innovation	Term 3	MMAN2300 Engineering Mechanics 2		MATH2069 Mathematics 2A		SCIF1000 Skills in Science	Term 3	MMAN4951 Research Thesis A
Term	MATH1131 Mathematics 1A <u>OR</u> MATH1141 Higher Mathematics 1A		ENGG1300 Engineering Mechanics	Term 3	ENGG2500 Fluid Mechanics for Engineers	Term 3	Physics Elective		AERO4110 Aerospace Design 2
3	PHYS1121 Physics 1A <u>OR</u> PHYS1131 Higher Physics 1A		DESN2000 Engineering Design and Professional Practice				Recommended Discipline Elective*		Employability Experience Course
	SCIF0000 (0 UoC) Introduction to University		MMAN2700		PHYS2111		AERO3410		MMAN4952 Research Thesis B
	MATH1231 Mathematics 1B <u>OR</u> MATH1241 Higher Mathematics 1B	Term 1	MATH2089 Term Numerical Methods and Statistics 1	Quantum Physics	Term 1	Aerospace Structures	Term 1	AERO4620 Dynamics of Aerospace Vehicles, Systems	
Term 1	ELEC1111 Electrical Circuit Fundamentals			AERO3630 Aerodynamics		PHYS3112 Experimental and Computational Physics		and Avionics PHYS3113	
	PHYS1221 Physics 1B <u>OR</u> PHYS1231 Higher Physics 1B				AERO3660 Flight Performance and Propulsion		Employability Experience Course		Thermal Physics and Statistical Mechanics MMAN4953
	MMAN1130 Design and Manufacturing		MATH2121 Theory and Applications of Differential Equations <u>OR MATH2221</u> Higher Theory and Applications of Differential Equations Term 2 ENGG2400 Mechanics of Solids 1 PHYS2114 Electromagnetism 2		DESN3000 Strategic Design Innovation		PHYS3111 Quantum Mechanics		Research Thesis C SCIF3010 (0 UoC)
Term 2	ENGG1811 Computing for Engineers <u>OR</u> COMP1511 Programming Fundamentals OR	Term		AERO3110 Aerospace Design 1	Term 2	Discipline Elective	Term 2	Graduation Portfolio Physics Elective	
	COMP1911 Computing 1A			_	MMAN3200 Linear Systems and Control	_			Discipline Elective

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