



Sample Study Outline Mechanical Engineering

Program / Degree: [3707 Engineering \(Mechanical Engineering\)](#)

Year	Term 1	UOC	Term 2	UOC	Term 3	UOC
1 st	MATH1131 Maths 1A OR MATH1141 Higher Maths 1A	6	MATH1231 Maths 1B OR MATH1241 Higher Maths 1B	6	ENGG1811	6
	DESN1000 Introduction to Engineering Design and Innovation	6	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A	6	<i>Free Elective</i>	6
	ELEC1111 Electrical Circuit Fundamentals	6	MMAN1130 Design and Manufacturing	6	ENGG1300 Engineering Mechanics	6
	Total UOC	18	Total UOC	18	Total UOC	18
2 nd	MMAN2700 Thermodynamics	6	MMAN2300 Engineering Mechanics 2	6	ENGG4909 Co-op Industry Training 1	12
	MATH2019 OR MATH2018 Engineering Mathematics 2E	6	ENGG2400 Mechanics of Solids I	6		
	ENGG2500 Fluid Mechanics for Engineers	6	Free Elective	6		
	Total UOC	18	Total UOC	18	Total UOC (nominal)	12
3 rd	MMAN3400 Mechanics of Solids 2	6	MECH3610 Advanced Thermofluids	6	MATH2089 Numerical Methods and statistics	6
	GE Elective	6	Disciplinary Elective	6	Disciplinary Elective	6
	GE Elective	6	MMAN3200 Linear Systems and Control	6	DESN2000 Eng. Design and Professional Practice	6
	Total UOC	18	Total UOC	18	Total UOC	18
4 th	ENGG4902 Co-op Industry Training 2A	12	ENGG4903 Co-op Industry Training 2B	6	ENGG4905 Co-op Industry Training 3B	12
			ENGG4904 Co-op Industry Training 3A	6		
	Total UOC (nominal)	12	Total UOC (nominal)	12	Total UOC (nominal)	12
5 th	MECH3110 Mechanical Design 1	6	MECH4100 Mechanical Design 2	6	Disciplinary Elective	6
	MMAN4951 Thesis A	4	MMAN4952 Thesis B	4	Disciplinary Elective	6
	Disciplinary Elective	6	DESN3000 Strategic Design Innovation	6	MMAN4953 Thesis C	4
	Total UOC	16	Total UOC	16	Total UOC	16

Notes:

UNSW calendar will move from 3-trimester model to 2-semester model in 2028 so the sample study outline from 3rd to 4th year will be subject to significant change later.

- 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 below).
- 2 Free Electives and 2 GE Electives
- Five Recommended Disciplinary Electives

Resources:

- [UNSW Handbook](#)
- [School](#)
- [Co-op](#)

Co-op Academic Coordinator

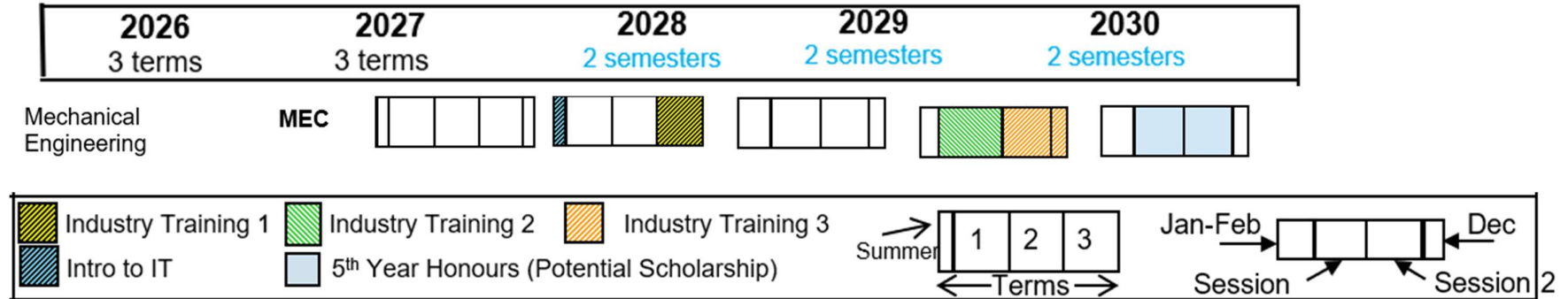
For enrolment related questions please always contact your Co-op Academic Coordinator in the first instance:

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When would I be on Industry Training (IT)?





Sample Study Outline

Mechatronic Engineering

Program / Degree: [3707 Engineering \(Mechanical Engineering\)](#)

Year	Term 1	UOC	Term 2	UOC	Term 3	UOC
1 st	MATH1131 Maths 1A OR MATH1141 Higher Maths 1A	6	MATH1231 Maths 1B OR MATH1241 Higher Maths 1B	6	<i>Free Elective</i>	6
	DESN1000 Introduction to Engineering Design and Innovation	6	COMP1511 Programming Fundamentals	6	ELEC1111 Electrical Circuit Fundamentals	6
	PHYS1121 Physics 1A OR PHYS1131 Higher Physics 1A	6	MMAN1130 Design and Manufacturing	6	ENGG1300 Engineering Mechanics	6
	Total UOC	18	Total UOC	18	Total UOC	18
2 nd	COMP2521 Data Structures and Algorithms	6	MMAN2300 Engineering Mechanics 2	6	ENGG4909 Co-op Industry Training 1	12
	MATH2019 OR MATH2018 Engineering Maths 2E	6	ENGG2400 Mechanics of Solids 1	6		
	ELEC2141 Digital Circuit Design	6	DESN2000 Engineering Design and Professional Practice (ELEC project*)	6		
	Total UOC	18	Total UOC	18	Total UOC (nominal)	12
3 rd	MTRN3210 Feedback Control Systems	6	DESN3000 Strategic Design Innovation	6	MATH2089 Numerical Methods and statistics	6
	<i>GE Elective</i>	6	<i>GE Elective</i>	6	MTRN2500 Computing for Mechatronics	6
	<i>Free Elective</i>	6	<i>Disciplinary Elective</i>	6	<i>Disciplinary Elective</i>	6
	Total UOC	18	Total UOC	18	Total UOC	18
4 th	ENGG4902 Co-op Industry Training 2A	12	ENGG4903 Co-op Industry Training 2B	6	ENGG4905 Co-op Industry Training 3B	12
			ENGG4904 Co-op Industry Training 3A	6		
	Total UOC (nominal)	12	Total UOC (nominal)	12	Total UOC (nominal)	12
5 th	MTRN3020 Modelling and Control of Mechatronic Systems	6	MTRN3100 Robot Design	6	MTRN3500 Computing Applications in Mechatronic Systems	6
	MMAN4951 Thesis A	4	MMAN4952 Thesis B	4	Disciplinary Elective	6
	MTRN4010 Advanced Autonomous Systems	6	MTRN4230 Robotics	6	MMAN4953 Thesis C	4
	Total UOC	16	Total UOC	16	Total UOC	16

* Requires manual enrolment

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- You must always take your Industry Training schedule into consideration when planning your course enrolment or other commitments (see below).
- 2 Free Electives and 2 GE Electives
- Three Recommended Disciplinary Electives

Resources:

- [UNSW Handbook](#)
- [School](#)
- [Co-op](#)

Co-op Academic Coordinator

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