

udy Plan Notes	2
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erospace Engineering Major	
efence Systems Major	
lechanical Engineering Major	
lechatronics and Robotics Major	
ledical Technologies Major	
enewable Energy Major	
mart Technologies Major	
ports Engineering Major	
lechanical Engineering Electives	



Study Plan Notes

Program structure

This is a five-year program with electives commencing in the second year. The final year contains the two-semester Research Project capstone course. Students may follow study plans specifying electives to complete a 24-unit Major and/or a 12-unit Minor within the program. Successful completion of the Program with a Major requires completion of all courses specified in that Major's study plan. All Majors consist of the same number of units and fill available electives slots, with three remaining to be chosen by the student.

Alternative courses

There are a small number of alternative course offerings that are not indicated in the study plans. TECH 1006 may be taken as a semester 2 alternative to CEME 1004. CEME 2001 may be taken as a semester 1 alternative to MECH ENG 2002. ENG 3004 and ENG 3005 may be taken in either semester. The consecutive pair ENG 4001A and ENG 4001B may commence in either semester.

Hands on Training

All Mechanical Engineering students are required to complete the ECMS Hands-On Training courses, information regarding this will be communicated via email to students.

Internships

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering.

Arts

Arts Core Competency and Electives courses may be chosen from the listed courses in the Program Rules for the degree of Bachelor of Arts. Students must complete a major in accordance with the Program Rules for the Bachelor of Arts: https://calendar.adelaide.edu.au/faculty/arts

General Electives

How to choose an elective course in your area of interest?

Please refer to the steps via the link: https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment

Program Rules

For academic program rules please refer to the following website: https://calendar.adelaide.edu.au/faculty/ecms

Information and Enrolment Advice

Ask ECMS

Email: askecms@adelaide.edu.au

Website: https://ecms.adelaide.edu.au/study-with-us/student-support



No Major

							NO Ma	yor
			Ye	ear 1	1			
S	MATHS 1011		^ENG 1001	٦l	CHEM ENG 1009		TECH 1006	
2	Mathematics IA	<u> </u>	Introduction to Engineering	ᆚ	Materials I	ш	Engineering Mechanics Technology	
			Ye	ear 2	2			
S	*MECH ENG 1007							
S	Engineering Mechanics – Dynamics	ш						
S	MATHS 1012		ENG 1002	٦l	MECH ENG 2100		ELEC ENG 1101	
1	Mathematics IB		Programming (Matlab and C)		Design Practice		Electronic Systems	
S	MATHS 2107		MECH ENG 2002	٦l	MECH ENG 2019	П	Arts Core Competency	
2	Statistics & Numerical Methods II		Stress Analysis & Design	_	Dynamics & Control I			
		_		ear 3				_
S	MATHS 2106		MECH ENG 2021	$\neg I$	Major course / Elective Year 2		Arts Major Level I	
1	Differential Equations for Engineers II	Ш	Thermo-Fluids I	ᅫ	(see elective table) <u>OR</u> General Elective	Ш		Ш
S	MECH ENG		MECH ENG 3111	-	General Elective		Arts Major Level I	
ა ე	2101 Mechatronics IM		Acoustics and Vibrations	IJ			Arts Major Level I	
	2101 Weenationics IIV		Inte	rns	hin			
	All Engineering students someone				•	- £ + l-	air studios and note an man 2	
	All Engineering students commer	icing	from 2019 are required to complete a minim			OI LII	eir studies – see note on page 2.	
				ear 4				_
S	MECH ENG 3102		Major course / Elective Year 3	٦I	Arts Elective Level II		Arts Major Level II	
1	Heat Transfer & Thermodynamics	Ш	(see elective table) OR	긔		Ш		Ш
	ENG 3004		General Elective	4	Maior course / Floatius Voor 4		Auto Maior Lovel II	
S 2	Systems Engineering & Industry Practice		Major course / Elective Year 3 (see elective table)		Major course / Elective Year 4 (see elective table)		Arts Major Level II	
	Systems Engineering & madstry i ractice	-	· · · · · · · · · · · · · · · · · · ·		·			_
	ENG 2005			ear 5			A	
٥ 1	ENG 3005 Research Method & Project Management		Major course / Elective Year 4 (see elective table)		Arts Major Level III		Arts Major Level III	
, r	ENG 4001A		Major course / Elective Year 4	4	Arts Major Level III Capstone Course (6 uni	+c\		
2	Research Project Part A		(see elective table)		Alto Major Level III Capstolle Course (0 ulli	(3)		
			-	ear 6	6			
S	ENG 4001B		Major course / Elective Year 4		Major course / Elective Year 4		Major course / Elective Year 4	
1	Research Project Part B		(see elective table)		(see elective table)		(see elective table)	
			(555 5.55.76 605.6)		(555 5.5576 605.6)		1000 0.00010	

Core Course Major Course / Elective (see table) Double Degree Courses

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

^{*} If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 2 Start

Aerospace Engineering Major

							space Engineering ma	<i>,</i>
			Year	r 1				
S 2	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
			Year	r 2	2			
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics							
S 1	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice]	ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Core Competency	
			Year	r 3				
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021 Thermo-Fluids I		MECH ENG 2020 Materials & Manufacturing		Arts Major Level I	
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations				Arts Major Level I	
			Intern	ısh	nip			
	All Engineering students commend	ing	from 2019 are required to complete a minimum	m	of 8 weeks of internship during the course of	th	eir studies – see note on page 2.	
			Year	r 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3100 Aeronautical Engineering		Arts Elective Level II		Arts Major Level II	
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3101 Applied Aerodynamics		MECH ENG 3104 Space Vehicle Design		Arts Major Level II	
			Year	r 5				
S 1	ENG 3005 Research Method & Project Management		MECH ENG 4106 Aerospace Propulsion		Arts Major Level III		Arts Major Level III	
S 2	ENG 4001A Research Project Part A		MECH ENG 4108 Aircraft Design		Arts Major Level III Capstone Course (6 units)			
			Year	_				
S 1	ENG 4001B Research Project Part B		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	

Elective (see table)

Double Degree Courses

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

^{*} If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 2 Start

Defence Systems Major

				Year	1				
S 2	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology		
				Year	2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics								
S 1	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems		
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Core Competency		
				Year					
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021 Thermo-Fluids I		MECH ENG 2020 Materials & Manufacturing		Arts Major Level I		
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations				Arts Major Level I		
	Internship								
	All Engineering students commen	cing	from 2019 are required to complete a mi	inimun	n of 8 weeks of <u>internship</u> during the course	of th	eir studies – see note on page 2.		
				Year	4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3026 Advanced Mechanics of Materials		Arts Elective Level II		Arts Major Level II		
S 2	ENG 3004 Systems Engineering & Industry Practice		ENG 3305 Human Factors for Decision Making		Elective Year 4 (see elective table)		Arts Major Level II		
				Year	5				
S 1	ENG 3005 Research Method & Project Management		POLIS 1104 Introduction to Comparative Politics		Arts Major Level III		Arts Major Level III		
S 2	ENG 4001A Research Project Part A		ENG 4020 Complex Systems Engineering		Arts Major Level III Capstone Course (6 unit	ts)			
				Year	6				
S 1	ENG 4001B Research Project Part B		ENG 4010 Defence Leadership		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		

Elective (see table)

Double Degree Courses

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^{*} If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 2 Start

Mechanical Engineering Major

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			Ye	ear :	1			
S 2	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology	
			Ye	ear :	2			
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics							
S 1	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Core Competency	
				ear :	3			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021 Thermo-Fluids I		MECH ENG 2020 Materials & Manufacturing		Arts Major Level I	
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations				Arts Major Level I	
			Inte	erns	hip			
	All Engineering students commend	cing	from 2019 are required to complete a minin	num	n of 8 weeks of internship during the course	e of th	eir studies – see note on page 2.	
			Ye	ear 4	4			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 3026 Advanced Mechanics of Materials		Arts Elective Level II		Arts Major Level II	
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3101 Applied Aerodynamics		Elective Year 4 (see elective table)		Arts Major Level II	
			Ye	ear!	5			
S 1	ENG 3005 Research Method & Project Management		MECH ENG 4111 CFD for Engineering Applications		Arts Major Level III		Arts Major Level III	
S 2	ENG 4001A Research Project Part A		Elective Year 4 (see elective table)		Arts Major Level III Capstone Course (6 un	its)		
				ear				
S 1	ENG 4001B Research Project Part B		MECH ENG 4118 Finite Element Analysis of Structures		MECH ENG 4121 Materials Selection & Failure Analysis		Elective Year 4 (see elective table)	

Elective (see table)

Double Degree Courses

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

^{*} If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 2 Start

Mechatronics and Robotics Major

	incommendation and incommendation of the stages									
			Year	1						
S	MATHS 1011	^ENG 1001		CHEM ENG 1009		TECH 1006				
2	Mathematics IA	Introduction to Engineering		Materials I	Ш	Engineering Mechanics Technology				
			Year	2						
S	*MECH ENG 1007									
S	Engineering Mechanics – Dynamics	_								
S	MATHS 1012	_ ENG 1002		MECH ENG 2100		ELEC ENG 1101				
1	Mathematics IB	Programming (Matlab and C)		Design Practice		Electronic Systems				
S	MATHS 2107	MECH ENG 2002		MECH ENG 2019		Arts Core Competency				
2	Statistics & Numerical Methods II	Stress Analysis & Design		Dynamics & Control I						
			Year	3						
S	MATHS 2106	MECH ENG 2021		ELEC ENG 2105		Arts Major Level I				
1	Differential Equations for Engineers II	Thermo-Fluids I		Electronic Circuits M						
S	MECH ENG	MECH ENG 3111				Arts Major Level I				
2	2101 Mechatronics IM	Acoustics and Vibrations								
	Internship Control of the Control of									
	All Engineering students commenci	ng from 2019 are required to complete a	a minimun	n of 8 weeks of <u>internship</u> durir	ng the course of th	eir studies – see note on page 2.				
			Year	4						
S	MECH ENG 3102	MECH ENG 3106		Arts Elective Level II		Arts Major Level II				
1	Heat Transfer & Thermodynamics	Mechatronics II								
S	ENG 3004	MECH ENG 3032		MECH ENG 4102		Arts Major Level II				
2	Systems Engineering & Industry Practice	Micro-Controller Programming		Advanced PID Control						
			Year	5						
S	ENG 3005	MECH ENG 4124		Arts Major Level III		Arts Major Level III				
1	Research Method & Project Management	Robotics M			Ш					
S	ENG 4001A	Elective Year 4		Arts Major Level III Capstone (Course (6 units)					
2	Research Project Part A	(see elective table)								
			Year	6						
S	ENG 4001B	MECH ENG 4080		Elective Year 4		Elective Year 4				
1	Research Project Part B	Modern Control Systems		(see elective table)	Ш	(see elective table)				

Elective (see table)

Double Degree Courses

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

^{*} If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Medical Technologies Major

				Year	1		G	,	
S 2	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology		
				Year	2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics								
S 1	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems		
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Core Competency		
				Year	3				
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021 Thermo-Fluids I		ANAT SC 1102 Human Anatomy and Physiology IA		Arts Major Level I		
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations				Arts Major Level I		
			Ir	iterns	hip				
	All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.								
				Year	4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		ENG 3101 Introduction to Medical Technologies		Arts Elective Level II		Arts Major Level II		
S 2	ENG 3004 Systems Engineering & Industry Practice		ELEC ENG 3113 Principles of Medical Imaging		ELEC ENG 4115 Biomedical Instrumentation		Arts Major Level II		
				Year	5			-	
S 1	ENG 3005 Research Method & Project Management [PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems		Arts Major Level III		Arts Major Level III		
S 2	ENG 4001A Research Project Part A		MECH ENG 4101 Biomechanical Engineering		Arts Major Level III Capstone Course (6 un	its)			
				Year	6				
S 1	ENG 4001B Research Project Part B		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		

Core Course Major course Elective (see table) Double Degree Courses

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

^{*} If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact <u>askecms@adelaide.edu.au</u> to discuss an alternative study plan.



Renewable Energy Major

							Trong waste Energy was	J	
				Year	1				
S	MATHS 1011		^ENG 1001		CHEM ENG 1009		TECH 1006		
2	Mathematics IA	Ш	Introduction to Engineering	Ш	Materials I	Ш	Engineering Mechanics Technology		
				Year	2				
S	*MECH ENG 1007								
S	Engineering Mechanics – Dynamics	Ш							
S	MATHS 1012		ENG 1002		MECH ENG 2100		ELEC ENG 1101		
1	Mathematics IB	Ш	Programming (Matlab and C)	Ш	Design Practice	Ш	Electronic Systems	Ш	
S	MATHS 2107		MECH ENG 2002	J	MECH ENG 2019	J	Arts Core Competency		
2	Statistics & Numerical Methods II		Stress Analysis & Design	Ш	Dynamics & Control I	Ш		Ш	
				Year	3			_	
S	MATHS 2106		MECH ENG 2021		MECH ENG 2020]	Arts Major Level I		
1	Differential Equations for Engineers II	Ш	Thermo-Fluids I	Ш	Materials & Manufacturing	Ш			
S	MECH ENG		MECH ENG 3111				Arts Major Level I		
2	2101 Mechatronics IM	Ш	Acoustics and Vibrations	Ш					
	Internship								
	All Engineering students commer	ncing	from 2019 are required to complete a min	nimun	n of 8 weeks of <u>internship</u> during the course	of th	eir studies – see note on page 2.		
				Year	4				
S	MECH ENG 3102		ENTREP 3006		Arts Elective Level II		Arts Major Level II		
1	Heat Transfer & Thermodynamics	Ш	Energy Management, Economics & Policy	Ш		Ш			
S	ENG 3004		CHEM ENG 4048		Elective Year 3		Arts Major Level II		
2	Systems Engineering & Industry Practice	Ш	Biofuels, Biomass and Wastes	Ш	(see elective table)	Ш		니	
				Year	5			_	
S	ENG 3005		MECH ENG 4064]	Arts Major Level III]	Arts Major Level III		
1	Research Method & Project Management	Ш	Renewable Power Technologies	Ш		Ш		ш	
S	ENG 4001A		ELEC ENG 4111		Arts Major Level III Capstone Course (6 uni	ts)			
2	Research Project Part A	Ш	Distributed Generation Technologies	Ш				ш	
				Year	6				
_	ENG 4001B		MECH ENG 4112		Elective Year 4		Elective Year 4		
S 1	Research Project Part B		Combustion Technologies & High		(see elective table)		(see elective table)		
1			Temperature Processes						

Core Course Major course Elective (see table) Double Degree Courses

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 2 Start

Smart Technologies Major

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				Year	1				
S 2	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CHEM ENG 1009 Materials I		TECH 1006 Engineering Mechanics Technology		
				Year	2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics								
S 1	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		MECH ENG 2100 Design Practice		ELEC ENG 1101 Electronic Systems		
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Core Competency		
				Year	3				
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2021 Thermo-Fluids I		COMP SCI 1102 Object Oriented Programming		Arts Major Level I		
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations				Arts Major Level I		
	Internship								
	All Engineering students commenci	ing ·	from 2019 are required to complete a m	inimur	n of 8 weeks of <u>internship</u> during the cours	se of th	eir studies – see note on page 2.		
				Year	4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		COMP SCI 2103 Algorithm Design & Data Structures		Arts Elective Level II		Arts Major Level II		
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3032 Micro-Controller Programming		COMP SCI 3012 Distributed Systems		Arts Major Level II		
				Year	5				
S 1	ENG 3005 Research Method & Project Management		COMP SCI 3001 Computer Networks & Applications		Arts Major Level III		Arts Major Level III		
S 2	ENG 4001A Research Project Part A		ELEC ENG 4107 Autonomous Systems		Arts Major Level III Capstone Course (6 u	nits)			
				Year	6				
S 1	ENG 4001B Research Project Part B		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)		

Elective (see table)

Double Degree Courses

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 2 Start

Sports Engineering Major

Year							Sports Ellollicolling 1410			
Materials Engineering Mechanics Technology Four contents Engineering Mechanics Technology				Year	1					
S MECH ENG 1007 S Engineering Mechanics – Dynamics MATHS 1012 I Mathematics IB MATHS 2107 Z Statistics & Numerical Methods II MATHS 2107 MECH ENG 2002 Stress Analysis & Design MECH ENG 2019 Dynamics & Control I MATHS 2107 MECH ENG 2019 Dynamics & Control I MATHS 2107 MECH ENG 2019 Dynamics & Control I MATHS 2106 MECH ENG 2019 Dynamics & Control I MATHS 2106 MECH ENG 2019 Dynamics & Control I Arts Major Level I Design Practice MECH ENG 2019 Dynamics & Control I Arts Major Level I Design Practice MECH ENG 2019 Dynamics & Control I Arts Major Level I Arts Major Level II S ENG 3004 Systems Engineering & Industry Practice MECH ENG 3101 Applied Aerodynamics MECH ENG 3112 Sports Engineering Arts Major Level III Arts Major Level III	S 2	l l								
S Engineering Mechanics – Dynamics MATHS 1012 MATHS 1012 MECH ENG 2002 Stress Analysis & Design MECH ENG 2019 Dynamics & Control I MECH ENG 2019 Dynamics & Control I MECH ENG 2011 Thermo-Fluids I MECH ENG 3111 Acoustics and Vibrations MECH ENG 3111 Acoustics and Vibrations MECH ENG 3111 Acoustics and Vibrations MECH ENG 3102 Heat Transfer & Thermodynamics MECH ENG 3026 Advanced Mechanics of Materials MECH ENG 3005 Research Method & Project Management MECH ENG 3112 MECH ENG 3112 Arts Major Level II Sports Engineering MECH ENG 3112 Arts Major Level III Arts Maj				Year	2					
Mathematics IB	S S	l l								
Stress Analysis & Design Year 3 S MATHS 2106 1 Differential Equations for Engineers II	1	Mathematics IB	Programming (Matlab and C)		Design Practice		Electronic Systems			
S MATHS 2106 1 Differential Equations for Engineers II	S 2						Arts Core Competency			
1 Differential Equations for Engineers II Thermo-Fluids I Human Anatomy and Physiology IA Arts Major Level I Acoustics and Vibrations Internship All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2. Year 4 S MECH ENG 3102 MECH ENG 3026 Advanced Mechanics of Materials Arts Elective Level II Arts Major Level III Arts Major Level				Year	3					
2 2101 Mechatronics IM Acoustics and Vibrations Internship All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2. Year 4 S MECH ENG 3102	S 1						Arts Major Level I			
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2. Year 4 S MECH ENG 3102	S 2						Arts Major Level I			
Year 4 S MECH ENG 3102		Internship								
S MECH ENG 3102		All Engineering students commenci	ng from 2019 are required to complete a m	ninimur	n of 8 weeks of <u>internship</u> during the cours	e of th	eir studies – see note on page 2.			
Advanced Mechanics of Materials S ENG 3004 Systems Engineering & Industry Practice WECH ENG 3101 Applied Aerodynamics S ENG 3005 Research Method & Project Management S ENG 4001A Research Project Part A MECH ENG 3112 Sports Engineering MECH ENG 3112 Sports Engineering MECH ENG 3112 Sports Engineering MECH ENG 4101 Biomechanical Engineering Arts Major Level III Arts Major Level III Capstone Course (6 units) Year 6				Year	4					
2 Systems Engineering & Industry Practice Applied Aerodynamics (see elective table) Year 5 S ENG 3005 1 Research Method & Project Management Sports Engineering MECH ENG 3112 Sports Engineering Arts Major Level III Sports Engineering Arts Major Level III Arts Major Level III Capstone Course (6 units) Research Project Part A Sesearch Project Part A Session Project Part A Sessi	S 1				Arts Elective Level II		Arts Major Level II			
S ENG 3005 Research Method & Project Management Sports Engineering Arts Major Level III S ENG 4001A Research Project Part A MECH ENG 3112 Sports Engineering Arts Major Level III Arts Major Level II	S 2						Arts Major Level II			
Research Method & Project Management Sports Engineering Arts Major Level III Capstone Course (6 units) Research Project Part A Biomechanical Engineering Year 6				Year	5					
2 Research Project Part A Biomechanical Engineering Year 6	S 1				Arts Major Level III		Arts Major Level III			
	S 2				Arts Major Level III Capstone Course (6 ur	nits)				
C FNC 4004D				Year	6					
1 Research Project Part B MECH ENG 4104 Advanced Topics in Fluid Mechanics (see elective table) Elective Year 4 (see elective table) Elective Year 4 (see elective table)	S 1	ENG 4001B Research Project Part B	MECH ENG 4104 Advanced Topics in Fluid Mechanics		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)			

Elective (see table)

Double Degree Courses

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Mechanical Engineering Electives

Not all Majors and Double Degrees permit electives in every semester slot.

		Yea	ar 2						
S1	MECH ENG 2020	Materials & Manufacturing							
		Yea	ar 3						
	MECH ENG 3026	Advanced Mechanics of Materials		MECH ENG 3032	Micro-Controller Programming				
	MECH ENG 3100	Aeronautical Engineering		MECH ENG 3101	Applied Aerodynamics				
	MECH ENG 3103	Advanced Manufacturing Systems		MECH ENG 3104	Space Vehicle Design				
S1	MECH ENG 3106	Mechatronics II	S2	ELEC ENG 2106	Vector Calculus & Electromagnetics				
	MECH ENG 3112	Sports Engineering		ELEC ENG 3112	Electric Drive Systems M				
				ENG 3305	Human Factors for Decision Making				
	DD 0 11 4 C1 17 0 0 0 0			ENTREP 3900	eChallenge				
WIN	PROJMGNT 3030	Project Logistics and Supply Chains							
		Yea	Year 4						
	MECH ENG 4064	Renewable Power Technologies		MECH ENG 4100	Advanced Topics in Aerospace Engineering				
	MECH ENG 4080	Modern Control Systems		MECH ENG 4101	Biomechanical Engineering				
	MECH ENG 4104	Advanced Topics in Fluid Mechanics		MECH ENG 4102	Advanced PID Control				
	MECH ENG 4106	Aerospace Propulsion		MECH ENG 4105	Advanced Vibrations				
S1	MECH ENG 4111	CFD for Engineering Applications	S2	MECH ENG 4107	Air conditioning				
-	MECH ENG 4112	Combustion Technologies & High Temperature Processes	-	MECH ENG 4108	Aircraft Design				
	MECH ENG 4118	Finite Element Analysis of Structures		MECH ENG 4123	Advanced Digital Control (not running in 2022)				
	MECH ENG 4121	Materials Selection & Failure Analysis		ENG 3201	Essentials of Humanitarian Practice				
	MECH ENG 4124	Robotics M		ENG 4020	Complex Systems Engineering				
	MECH ENG 4115	Engineering Acoustics							
CLINA	MECH ENG 4113	Topics in Welded Structures							
SUM									