

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Study Plan Notes	2
No Major	
Aerospace Engineering Major	
Defence Systems Major	
Mechanical Engineering Major	
Mechatronics and Robotics Major	
Medical Technologies Major	
Renewable Energy Major	9
Smart Technologies Major	10
Sports Engineering Major	
Mechanical Engineering Electives	12



Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Study Plan Notes

2022 Study Plan

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



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No Major

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			Year	r 1	l e e e e e e e e e e e e e e e e e e e			
S 1	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering	1 I	CEME 1004 Engineering Mechanics-Statics	7 I	ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I		MECH ENG 1007 Engineering Mechanics – Dynamics	
			Year	r 2	2			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I		Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design	1	MECH ENG 2019 Dynamics & Control I		Arts Major Level I	
			Year	r 3	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		Major course / Elective Year 2 (see elective table) OR General Elective]	Arts Major Level II		Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations]	Arts Major Level II]	Arts Elective Level II	
			Intern	ısh	nip	-		
	All Engineering students commenc	ing	from 2019 are required to complete a minimum	ım	of 8 weeks of $\underline{\text{internship}}$ during the course of t	the	eir studies – see note on page 2.	
			Year	r 4	l e			
S 1	ENG 3005 Research Method & Project Management [Major course / Elective Year 3 (see elective table) OR General Elective]	Arts Major Level III]	Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry [Practice		Major course / Elective Year 3 (see elective table)]	Arts Major Level III Capstone Course (6 units)			
			Year	r 5	5			
S 1	ENG 4001A Research Project Part A		Major course / Elective Year 4 (see elective table)		Major course / Elective Year 4 (see elective table)	Ц	Major course / Elective Year 4 (see elective table)	
S 2	ENG 4100B Research Project Part B		Major course / Elective Year 4 (see elective table)		Major course / Elective Year 4 (see elective table)		Major course / 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.



Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Aerospace Engineering Major

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			Year	1			
S 1	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering	CEME 1004 Engineering Mechanics-Statics		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)	CHEM ENG 1009 Materials I		MECH ENG 1007 Engineering Mechanics – Dynamics	
			Year	2			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2100 Design Practice	MECH ENG 2021 Thermo-Fluids I		Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I		Arts Major Level I	
			Year	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 2020 Materials & Manufacturing	Arts Major Level II		Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations	Arts Major Level II		Arts Elective Level II	
			Interns	ship			
	All Engineering students commenc	ing	from 2019 are required to complete a minimur	n of 8 weeks of <u>internship</u> during the course of	f th	eir studies – see note on page 2.	
			Year	4			
S 1	ENG 3005 Research Method & Project Management		MECH ENG 3100 Aeronautical Engineering	Arts Major Level III		Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3101 Applied Aerodynamics	Arts Major Level III Capstone Course (6 units))		
			Year	5			
S 1	ENG 4001A Research Project Part A		MECH ENG 4106 Aerospace Propulsion	Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	
S 2	ENG 4100B Research Project Part B		MECH ENG 4108 Aircraft Design	MECH ENG 3104 Space Vehicle Design		Elective Year 4 (see elective table)	

Elective (see table)

Last published 26 November 2021 Page 4

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Defence Systems Major

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				Year	1			
S 1	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems		
S 2	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics		
	Year 2							
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I	Arts Major Level I		
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I	Arts Major Level I		
				Year	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 2020 Materials & Manufacturing		Arts Major Level II	Arts Core Competency		
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations		Arts Major Level II	Arts Elective Level II		
				Interns	hip			
	All Engineering students commend	cing	from 2019 are required to complete a m	inimun	n of 8 weeks of <u>internship</u> during the course of t	heir studies – see note on page 2.		
				Year	4			
S 1	ENG 3005 Research Method & Project Management		MECH ENG 3026 Advanced Mechanics of Materials		Arts Major Level III	Arts Major Level III		
S 2	ENG 3004 Systems Engineering & Industry Practice		ENG 3305 Human Factors for Decision Making		Arts Major Level III Capstone Course (6 units)			
				Year	5			
S 1	ENG 4001A Research Project Part A		POLIS 1104 Introduction to Comparative Politics		ENG 4010 Defence Leadership	Elective Year 4 (see elective table)		
S 2	ENG 4100B Research Project Part B		ENG 4020 Complex Systems Engineering		Elective Year 4 (see elective table)	Elective Year 4 (see elective table)		

Elective (see table)

Last published 26 November 2021 Page 5

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Mechanical Engineering Major

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			Y	⁄ear	1			
S 1	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering		CEME 1004 Engineering Mechanics-Statics		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I		MECH ENG 1007 Engineering Mechanics – Dynamics	
			Y	⁄ear	2			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I		Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I	\exists	Arts Major Level I	
			γ	⁄ear	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		MECH ENG 2020 Materials & Manufacturing		Arts Major Level II		Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations		Arts Major Level II		Arts Elective Level II	
			Int	erns	hip			
	All Engineering students commen	cing	from 2019 are required to complete a mini	mun	n of 8 weeks of <u>internship</u> during the course o	f th	eir studies – see note on page 2.	
			Υ	/ear	4			
S 1	ENG 3005 Research Method & Project Management		MECH ENG 3026 Advanced Mechanics of Materials		Arts Major Level III		Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3101 Applied Aerodynamics		Arts Major Level III Capstone Course (6 units)		
			Y	⁄ear	5			
S 1	ENG 4001A Research Project Part A		MECH ENG 4118 Finite Element Analysis of Structures		MECH ENG 4111 CFD for Engineering Applications		MECH ENG 4121 Materials Selection & Failure Analysis	
S 2	ENG 4100B Research Project Part B		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	\supset	Elective Year 4 (see elective table)	

Elective (see table)

Last published 26 November 2021 Page 6

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Mechatronics and Robotics Major

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				-				
S 1	MATHS 1011 Mathematics IA		^ENG 1001 Introduction to Engineering	7 I	CEME 1004 Engineering Mechanics-Statics		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB		ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I		MECH ENG 1007 Engineering Mechanics – Dynamics	
			Yea	ar 2	2			
S 1	MATHS 2106 Differential Equations for Engineers II		MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I		Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II		MECH ENG 2002 Stress Analysis & Design	7 I	MECH ENG 2019 Dynamics & Control I		Arts Major Level I	
			Yea	ar 3	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics		ELEC ENG 2105 Electronic Circuits M		Arts Major Level II		Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM		MECH ENG 3111 Acoustics and Vibrations		Arts Major Level II		Arts Elective Level II	
			Inter	nsł	hip			
	All Engineering students commer	ncing	from 2019 are required to complete a minimu	um	of 8 weeks of internship during the course	of th	eir studies – see note on page 2.	
			Yea	ar 4	4			
S 1	ENG 3005 Research Method & Project Management		MECH ENG 3106 Mechatronics II		Arts Major Level III		Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry Practice		MECH ENG 3032 Micro-Controller Programming		Arts Major Level III Capstone Course (6 unit	ts)		
			Yea	ar 5	5			
S 1	ENG 4001A Research Project Part A		MECH ENG 4124 Robotics M		MECH ENG 4080 Modern Control Systems		Elective Year 4 (see elective table)	
S 2	ENG 4100B Research Project Part B		MECH ENG 4102 Advanced PID Control		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	

Elective (see table)

Last published 26 November 2021 Page 7

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Medical Technologies Major

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			Year	1			
S 1	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering		CEME 1004 Engineering Mechanics-Statics		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I		MECH ENG 1007 Engineering Mechanics – Dynamics	
			Year	2			
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I		Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Major Level I	
			Year	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics	ANAT SC 1102 Human Anatomy and Physiology IA		Arts Major Level II		Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM	MECH ENG 3111 Acoustics and Vibrations		Arts Major Level II		Arts Elective Level II	
			Intern	ship			
	All Engineering students commencing	g from 2019 are required to complete a m	ninimur	m of 8 weeks of <u>internship</u> during the course of	f th	eir studies – see note on page 2.	
			Year	4			
S 1	ENG 3005 Research Method & Project Management	ENG 3101 Introduction to Medical Technologies		Arts Major Level III		Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry Practice	ELEC ENG 3113 Principles of Medical Imaging		Arts Major Level III Capstone Course (6 units))		
			Year	<u>'</u>			_
S 1	ENG 4001A Research Project Part A	PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	
S 2	ENG 4100B Research Project Part B	MECH ENG 4101 Biomechanical Engineering		ELEC ENG 4115 Biomedical Instrumentation		Elective Year 4 (see elective table)	

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Double Degree Courses

Elective (see table)



Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Renewable Energy Major

s M					
1 M	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering	CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems	
_	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)	CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics	
		Yea	r 2		
	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice	MECH ENG 2021 Thermo-Fluids I	Arts Major Level I	
	MATHS 2107 tatistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	Arts Major Level I	
		Yea	r 3		
3	MECH ENG 3102 leat Transfer & Thermodynamics	MECH ENG 2020 Materials & Manufacturing	Arts Major Level II	Arts Core Competency	
	MECH ENG 2101 Mechatronics IM	MECH ENG 3111 Acoustics and Vibrations	Arts Major Level II	Arts Elective Level II	
		Inter	ship		
	All Engineering students commencing	g from 2019 are required to complete a minim	m of 8 weeks of internship during the course of t	heir studies – see note on page 2.	
		Yea	r 4		
c -	NG 3005 esearch Method & Project Management	ENTREP 3006 Energy Management, Economics & Policy	Arts Major Level III	Arts Major Level III	
S Sy	NG 3004 ystems Engineering & Industry ractice	Elective Year 3 (see elective table)	Arts Major Level III Capstone Course (6 units)		
		Yea	r 5		
(NG 4001A lesearch Project Part A	MECH ENG 4064 Renewable Power Technologies	MECH ENG 4112 Combustion Technologies & High Temperature Processes	Elective Year 4 (see elective table)	
3	NG 4100B Lesearch Project Part B	CHEM ENG 4048 Biofuels, Biomass and Wastes	ELEC ENG 4111 Distributed Generation Technologies	Elective Year 4 (see elective table)	

Double Degree Courses

Elective (see table)

Page 9

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Smart Technologies Major

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		١	⁄ear	1			
S 1	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering		CEME 1004 Engineering Mechanics-Statics	- 1	ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I		MECH ENG 1007 Engineering Mechanics – Dynamics	
		•	⁄ear				
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I		Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I		Arts Major Level I	
		١	⁄ear	3			
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics	COMP SCI 1102 Object Oriented Programming		Arts Major Level II] ·	Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM	MECH ENG 3111 Acoustics and Vibrations		Arts Major Level II		Arts Elective Level II	
		Int	erns	hip			
	All Engineering students commencin	g from 2019 are required to complete a mini	mun	n of 8 weeks of <u>internship</u> during the course of t	the	eir studies – see note on page 2.	
		١	⁄ear	4			
S 1	ENG 3005 Research Method & Project Management	COMP SCI 2103 Algorithm Design & Data Structures		Arts Major Level III		Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3032 Micro-Controller Programming		Arts Major Level III Capstone Course (6 units)	•		
		Y	⁄ear	5			
S 1	ENG 4001A Research Project Part A	COMP SCI 3001 Computer Networks & Applications		Elective Year 4 (see elective table)		Elective Year 4 (see elective table)	
S 2	ENG 4100B Research Project Part B	ELEC ENG 4107 Autonomous Systems		COMP SCI 3012 Distributed Systems	71	Elective Year 4 (see elective table)	

Double Degree Courses

Elective (see table)

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Major course

2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

Sports Engineering Major

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			Year	1		
S 1	MATHS 1011 Mathematics IA	^ENG 1001 Introduction to Engineering		CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems	
S 2	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)		CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics	
			Year	2		
S 1	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice		MECH ENG 2021 Thermo-Fluids I	Arts Major Level I	
S 2	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design		MECH ENG 2019 Dynamics & Control I	Arts Major Level I	
			Year	3		Į.
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics	ANAT SC 1102 Human Anatomy and Physiology IA		Arts Major Level II	Arts Core Competency	
S 2	MECH ENG 2101 Mechatronics IM	MECH ENG 3111 Acoustics and Vibrations		Arts Major Level II	Arts Elective Level II	
			Interns	hip		
	All Engineering students commencing	ng from 2019 are required to complete a	minimur	n of 8 weeks of <u>internship</u> during the course of	their studies – see note on page 2.	
			Year	4		
S 1	ENG 3005 Research Method & Project Management	MECH ENG 3026 Advanced Mechanics of Materials		Arts Major Level III	Arts Major Level III	
S 2	ENG 3004 Systems Engineering & Industry Practice	MECH ENG 3101 Applied Aerodynamics		Arts Major Level III Capstone Course (6 units)		
			Year	5		
S 1	ENG 4001A Research Project Part A	MECH ENG 3112 Sports Engineering		MECH ENG 4104 Advanced Topics in Fluid Mechanics	Elective Year 4 (see elective table)	
S 2	ENG 4100B Research Project Part B	MECH ENG 4101 Biomechanical Engineering		Elective Year 4 (see elective table)	Elective Year 4 (see elective table)	

Double Degree Courses

Elective (see table)

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2022 Study Plan Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts — Semester 1 Start

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						
S1	MECH ENG 3026 MECH ENG 3100 MECH ENG 3103 MECH ENG 3106 MECH ENG 3112	Advanced Mechanics of Materials Aeronautical Engineering Advanced Manufacturing Systems Mechatronics II Sports Engineering Project Logistics and Supply Chains	S2	MECH ENG 3032 MECH ENG 3101 MECH ENG 3104 ELEC ENG 2106 ELEC ENG 3112 ENG 3305 ENTREP 3900	Micro-Controller Programming Applied Aerodynamics Space Vehicle Design Vector Calculus & Electromagnetics Electric Drive Systems M Human Factors for Decision Making eChallenge				
VVIIV	N The strain and a supply chains			Year 4					
S1	MECH ENG 4064 MECH ENG 4080 MECH ENG 4104 MECH ENG 4111 MECH ENG 4111 MECH ENG 4112 MECH ENG 4121 MECH ENG 4121 MECH ENG 4124	Renewable Power Technologies Modern Control Systems Advanced Topics in Fluid Mechanics Aerospace Propulsion CFD for Engineering Applications Combustion Technologies & High Temperature Processes Finite Element Analysis of Structures Materials Selection & Failure Analysis Robotics M	S2	MECH ENG 4100 MECH ENG 4101 MECH ENG 4102 MECH ENG 4105 MECH ENG 4107 MECH ENG 4108 MECH ENG 4123 ENG 3201 ENG 4020	Advanced Topics in Aerospace Engineering Biomechanical Engineering Advanced PID Control Advanced Vibrations Air conditioning Aircraft Design Advanced Digital Control (not running in 2022) Essentials of Humanitarian Practice Complex Systems Engineering				
SUM	MECH ENG 4115 MECH ENG 4126	Engineering Acoustics Topics in Welded Structures							