

Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

lo Major	2
Communication Systems Major	4
Computer Engineering Major	
ybersecurity Major	
Defence Systems Major	
леdical Technologies Major	
enewable Energy Major	
mart Technologies Major	



Core Course

Elective (see table)

2022 Study Plan

Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

No Major

		Van	. 4	140 1/14/01						
		Year								
S1										
S2	MATHS 1011	PHYSICS 1510	ELEC ENG 1102	ENG 1002						
32	Mathematics IA	Physics 1E: Mechanics & Thermodynamics	Digital Electronics	Programming (Matlab and C)						
	Year 2									
S1	MATHS 1012	COMP SCI 1102	^ENG 1001	ELEC ENG 1100						
31	Mathematics IB	Object Oriented Programming	Introduction to Engineering	Analog Electronics						
S2	MATHS 2107	ELEC ENG 2103	ELEC ENG 2104	ELEC ENG 2106						
32	Statistics & Numerical Methods II	Design & Innovation	Digital Signal Processing	Vector Calculus & Electromagnetics						
		Year	r3							
S 1	MATHS 2106	ELEC ENG 2100	ELEC ENG 2101	ELEC ENG 2102						
21	Differential Equations for Engineers II	Digital Systems	Electronic Circuits	Electric Energy Conversion						
S2	ENG 3004	ELEC ENG 3110	ELEC ENG 4105	ELEC ENG 3104						
32	Systems Engineering & Industry Practice	Electric Power Systems	Real-Time and Embedded Systems	Electric Drive Systems						
		Intern	ship							
	All Engineering students commencing from	n 2019 are required to complete a minimum of	8 weeks of <u>internship</u> during the course of their s	tudies – see note below elective table.						
		Year	• 4							
	ELEC ENG 3101	ELEC ENG 3103	~Level II or III Mathematics Elective	~Level II or III Mathematics Elective						
S1	Control	Engineering Electromagnetics								
	ELEC ENG 4106	E&E Engineering Elective	~Level II or III Mathematics Elective	~Level II or III Mathematics Elective						
S2	Radio Frequency Systems	(see elective table)								
		Year	5							
	ENG 3005	E&E Engineering Elective	~Level III Mathematics Elective	~Level III Mathematics Elective						
S1	Research Method & Project Management	(see elective table)								
	ENG 4001A	ELEC ENG 4100	~Level III Mathematics Elective	~Level III Mathematics Elective						
S2	Research Project Part A	Business Management Systems								
		Year	6							
	ENG 4001B	E&E Engineering Elective	E&E Engineering Elective	E&E Engineering Elective						
S1	Research Project Part B	(see elective table)	(see elective table)	(see elective 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.

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES							
	COMP SCI 2103	Algorithm Design & Data Structures		COMP SCI 2103	Algorithm Design & Data Structures			
	COMP SCI 3001	Computer Networks & Applications		COMP SCI 3006	Software Engineering & Project			
	ELEC ENG 3088	Computer Architecture		ELEC ENG 3108	Telecommunications Principles			
	ELEC ENG 4058	G 4063 Communications G 4069 Radar Principles & Systems G 4109 Digital Microelectronics		ELEC ENG 3113	Principles of Medical Imaging			
S1	ELEC ENG 4063			ELEC ENG 4061	Image Processing			
31	ELEC ENG 4069			ELEC ENG 4067	Antennas and Propagation			
	ELEC ENG 4109			ELEC ENG 4087	Electricity Market and Power System Operations			
	ELEC ENG 4112			ELEC ENG 4107	Autonomous Systems			
				ELEC ENG 4111	Distributed Generation Technologies			
				ELEC ENG 4115	Biomedical Instrumentation			

NOTES

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

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



Core Course

Major course

2022 Study Plan

Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Communication Systems Major

			Year	1		·	V
S1							
S2	MATHS 1011 Mathematics IA	PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)	
			Year	2			
S1	MATHS 1012 Mathematics IB	COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics	
S2	MATHS 2107 Statistics & Numerical Methods II	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		ELEC ENG 2106 Vector Calculus & Electromagnetics	
			Year	3			_
S1	MATHS 2106 Differential Equations for Engineers II	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion	
S2	ELEC ENG 4054 Telecommunication Systems	COMP SCI 2103 Algorithm Design & Data Structures		ELEC ENG 3108 Telecommunications Principles		ENG 3004 Systems Engineering & Industry Practice	
			Intern	ship			
	All Engineering students commencing from	m 2019 are required to complete a minimւ	um of 8	8 weeks of <u>internship</u> during the course of th	neir st	udies – see note below elective table.	
			Year	4			
S1	ELEC ENG 3101 Control	ELEC ENG 3103 Engineering Electromagnetics		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
S2	ELEC ENG 4106 Radio Frequency Systems	E&E Engineering Elective (see elective table)		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
			Year	5			_
S1	ENG 3005 Research Method & Project Management	E&E Engineering Elective (see elective table)		~Level III Mathematics Elective		~Level III Mathematics Elective	
S2	ENG 4001A Research Project Part A	ELEC ENG 4100 Business Management Systems		~Level III Mathematics Elective		~Level III Mathematics Elective	
			Year	6			
S1	ENG 4001B Research Project Part B	COMP SCI 3001 Computer Networks & Applications		ELEC ENG 4063 Communications		E&E Engineering Elective (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.

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES								
	COMP SCI 3007	SCI 3007 Artificial Intelligence		ELEC ENG 4061	Image Processing				
	ELEC ENG 3088	Computer Architecture		ELEC ENG 4067	Antennas and Propagation				
S1	ELEC ENG 4069	Radar Principles & Systems	S2	ELEC ENG 4105	Real-Time & Embedded Systems				
	ELEC ENG 4109	Digital Microelectronics							
	ELEC ENG 4112	Signal Processing Applications							

NOTES

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

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



Core Course

Major course

2022 Study Plan

Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Computer Engineering Major

	Year 1									
S1										
S2	MATHS 1011 Mathematics IA	PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)				
		Ye	ear	2						
S1	MATHS 1012 Mathematics IB	COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics				
S2	MATHS 2107 Statistics & Numerical Methods II	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		ELEC ENG 2106 Vector Calculus & Electromagnetics				
		Ye	ear	3						
S1	MATHS 2106 Differential Equations for Engineers II	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion				
S2	Real-Time & Embedded Systems	COMP SCI 2103 Algorithm Design & Data Structures		ENG 3004 Systems Engineering & Industry Practice		ENG 3005 Research Method & Project Management				
		Inter	rns	hip						
	All Engineering students commencing from	n 2019 are required to complete a minimum o	of 8	weeks of $\underline{\text{internship}}$ during the course of th	eir st	tudies – see note below elective table.				
		Ye	ear	4						
S1	ELEC ENG 3101 Control	ELEC ENG 3103 Engineering Electromagnetics		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective				
S2	COMP SCI 3004 Operating Systems	E&E Engineering Elective (see elective table)		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective				
		Ye	ear .	5						
S1	COMP SCI 3001 Computer Networks & Applications	ELEC ENG 3088 Computer Architecture		~Level III Mathematics Elective		~Level III Mathematics Elective				
S2	ENG 4001A Research Project Part A	ELEC ENG 4100 Business Management Systems		~Level III Mathematics Elective		~Level III Mathematics Elective				
		Ye	ear	6						
S1	ENG 4001B Research Project Part B	ELEC ENG 4109 Digital Microelectronics		E&E Engineering Elective (see elective table)		E&E Engineering Elective (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.

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES								
	COMP SCI 3007	Artificial Intelligence		COMP SCI 3006	Software Engineering & Project				
	COMP SCI 3308	Cybersecurity Fundamentals		COMP SCI 3307	Secure Programming				
C1	ELEC ENG 4112	Signal Processing Applications	62	ELEC ENG 3104	Electric Drive Systems				
31			32	ELEC ENG 3108	Telecommunications Principles				
				ELEC ENG 4061	Image Processing				
				ELEC ENG 4106	Radio Frequency Systems				

NOTES

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

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



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Cybersecurity Major

						Cyberbecuitty wa	$J \cup I$
			Year	1			
S1							
S2	MATHS 1011 Mathematics IA	PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)	
			Year	2			
S1	MATHS 1012 Mathematics IB	COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics	
S2	MATHS 2107 Statistics & Numerical Methods II	Design & Innovation		ELEC ENG 2104 Digital Signal Processing		ELEC ENG 2106 Vector Calculus & Electromagnetics	
			Year	3			
S1	MATHS 2106 Differential Equations for Engineers II	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion	
S2	COMP SCI 2000 Computer Systems	COMP SCI 2103 Algorithm Design & Data Structures		ENG 3004 Systems Engineering & Industry Practice		~Level II or III Mathematics Elective	
			Intern	ship			
	All Engineering students commencing from	om 2019 are required to complete a minimu	um of 8	3 weeks of <u>internship</u> during the course of	their s	tudies – see note below elective table.	
			Year	4			
S1	COMP SCI 2201 Algorithm & Data Structure Analysis	COMP SCI 3308 Cybersecurity Fundamentals		ELEC ENG 3101 Control		~Level II or III Mathematics Elective	
S2	COMP SCI 3004 Operating Systems UG	COMP SCI 3307 Secure Programming		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
			Year	5			
S1	ENG 3005 Research Method & Project Management	ELEC ENG 3103 Engineering Electromagnetics		E&E Engineering Elective (see elective table)		~Level III Mathematics Elective	
S2	ENG 4001A Research Project Part A	ELEC ENG 4100 Business Management Systems		~Level III Mathematics Elective		~Level III Mathematics Elective	
			Year	6			
S1	ENG 4001B Research Project Part B	E&E Engineering Elective (see elective table)		E&E Engineering Elective (see elective table)		~Level III Mathematics Elective	
Core	e Course Major course F	lective (see table) Double Degree C	`nurses				

Page 8

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

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms Last published 27 November 2021



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
	COMP SCI 3001	Computer Networks & Applications		COMP SCI 3006	Software Engineering & Project					
	ELEC ENG 4063	Communications		ELEC ENG 3104	Electric Drive Systems					
61	ELEC ENG 4109	Digital Microelectronics	62	ELEC ENG 3108	Telecommunications Principles					
31	S2	32	ELEC ENG 4061	Image Processing						
				ELEC ENG 4105	Real-Time & Embedded Systems					
				ELEC ENG 4106	Radio Frequency Systems					

NOTES

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

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



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Defence Systems Major

		Y	'ear	1		2 elellee 2 yetellis 1.14gel				
S1										
S2	MATHS 1011 Mathematics IA	PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)				
	Year 2									
S1	MATHS 1012 Mathematics IB	COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics				
S2	MATHS 2107 Statistics & Numerical Methods II	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		ELEC ENG 2106 Vector Calculus & Electromagnetics				
		Y	'ear	3						
S1	MATHS 2106 Differential Equations for Engineers II	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion				
S2	ENG 3305 Human Factors for Decision Making	ELEC ENG 4107 Autonomous Systems		ENG 3004 Systems Engineering & Industry Practice		~Level II or III Mathematics Elective				
		Inte	erns	hip						
	All Engineering students commencing from	2019 are required to complete a minimum	of 8	weeks of internship during the course of the	eir s	tudies – see note below elective table.				
		Υ	'ear	4						
S1	ELEC ENG 3103 Engineering Electromagnetics	ELEC ENG 3101 Control		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective				
S2	ELEC ENG 4106 Radio Frequency Systems	E&E Engineering Elective (see elective table)		~Level II or III Mathematics Elective		~Level III Mathematics Elective				
		Y	'ear	5						
S1	POLIS 1104 Introduction to Comparative Politics	ENG 3005 Research Method & Project Management		~Level III Mathematics Elective		~Level III Mathematics Elective				
S2	ENG 4001A Research Project Part A	ENG 4020 Complex Systems Engineering		ELEC ENG 4100 Business Management Systems		~Level III Mathematics Elective				
		Y	'ear	6						
S1	ENG 4001B Research Project Part B	ENG 4010 Defence Leadership		E&E Engineering Elective (see elective table)		E&E Engineering Elective (see elective table)				
Core	Course Major course Flec	tive (see table) Double Degree Cou	rcac							

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

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES							
	COMP SCI 2103	Algorithm Design & Data Structures		COMP SCI 2103	Algorithm Design & Data Structures			
	COMP SCI 3001	ELEC ENG 4063 Communications		ELEC ENG 3108	Telecommunications Principles			
١,	ELEC ENG 4063			ELEC ENG 4061	Image Processing			
	ELEC ENG 4069			ELEC ENG 4067	Antennas & Propagation			
	ELEC ENG 4109	Digital Microelectronics		ELEC ENG 4111	Distributed Generation Technologies			
	ELEC ENG 4112	Signal Processing Applications						

NOTES

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

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



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Medical Technologies Major

				Year	1		J	
S1								
S2	MATHS 1011 Mathematics IA		PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)	
				Year	2			
S1	MATHS 1012 Mathematics IB		COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics	
S2	MATHS 2107 Statistics & Numerical Methods II		ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		ELEC ENG 2106 Vector Calculus & Electromagnetics	
				Year	3			
S1	MATHS 2106 Differential Equations for Engineers II		ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion	
S2	ENG 3004 Systems Engineering & Industry Practice		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
			lı	ntern	ship			
	All Engineering students commencing f	rom	2019 are required to complete a minimu	m of 8	3 weeks of <u>internship</u> during the course of th	neir s	tudies – see note below elective table.	
				Year	4			
S1	ANAT SC 1102 Human Anatomy and Physiology IA		ENG 3101 Introduction to Medical Technologies		ELEC ENG 3101 Control		E&E Engineering Elective (see elective table)	
S2	ELEC ENG 3113 Principles of Medical Imaging		MECH ENG 4101 Biomechanical Engineering		ELEC ENG 4115 Biomedical Instrumentation		~Level II or III Mathematics Elective	
				Year	5			
S1	ENG 3005 Research Method & Project Management		ELEC ENG 3103 Engineering Electromagnetics		E&E Engineering Elective (see elective table)		~Level III Mathematics Elective	
S2	ENG 4001A Research Project Part A		ELEC ENG 4100 Business Management Systems		~Level III Mathematics Elective		~Level III Mathematics Elective	
				Year	6			
S1	ENG 4001B Research Project Part B		PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems		E&E Engineering Elective (see elective table)		~Level III Mathematics Elective	
Cor	e Course Major course	Elec	tive (see table) Double Degree Co	ourses				

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

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
	ANAT SC 2006	Foundations of Human Neuroanatomy		COMP SCI 2103	Algorithm Design & Data Structures					
	ANAT SC 2109	Biology and Development of Human Tissues		ELEC ENG 3108	Telecommunications Principles					
٠,	COMP SCI 2103	Algorithm Design & Data Structures	S2	ELEC ENG 4061	Image Processing					
3.	ELEC ENG 4063	Communications	32	ELEC ENG 4067	Antennas & Propagation					
	ELEC ENG 4109	Digital Microelectronics								
	ELEC ENG 4112	Signal Processing Applications								

NOTES

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

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



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences - Mathematics Major - Semester 2 Start

Renewable Energy Major

S1								
S2	MATHS 1011 Mathematics IA		PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)	
	Wathernatics IA		Thysics III Mechanics & Thermodynamics	Year			Trogramming (wattab and c)	
				Year				
S1	MATHS 1012 Mathematics IB		COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics	
S2	MATHS 2107		ELEC ENG 2103		ELEC ENG 2104		ELEC ENG 2106	
32	Statistics & Numerical Methods II	Ш	Design & Innovation		Digital Signal Processing	Ш	Vector Calculus & Electromagnetics	
				Year	3			
S1	MATHS 2106		ELEC ENG 2100	_	ELEC ENG 2101		ELEC ENG 2102	
31	Differential Equations for Engineers II		Digital Systems		Electronic Circuits		Electric Energy Conversion	
S2	ELEC ENG 4111	П	ELEC ENG 3110		ELEC ENG 3104	П	ENG 3004	
	Distributed Generation Technologies		Electric Power Systems		Electric Drive Systems		Systems Engineering & Industry Practice	
				ntern	ship			
	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 below elective table.							
				Year	4			
S1	ELEC ENG 3103		ELEC ENG 3101	Year	4 ~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
S1	Engineering Electromagnetics		Control	Year			~Level II or III Mathematics Elective	
	Engineering Electromagnetics CHEM ENG 4048		Control E&E Engineering Elective	Year			~Level II or III Mathematics Elective ~Level II or III Mathematics Elective	
S1 S2	Engineering Electromagnetics		Control	Year	~Level II or III Mathematics Elective			
	Engineering Electromagnetics CHEM ENG 4048		Control E&E Engineering Elective	Year	~Level II or III Mathematics Elective ~Level II or III Mathematics Elective			
S2	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005		Control E&E Engineering Elective (see elective table) E&E Engineering Elective		~Level II or III Mathematics Elective ~Level II or III Mathematics Elective			
	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005 Research Method & Project Management		Control E&E Engineering Elective (see elective table) E&E Engineering Elective (see elective table)		~Level II or III Mathematics Elective ~Level II or III Mathematics Elective 5 ~Level III Mathematics Elective		~Level II or III Mathematics Elective ~Level III Mathematics Elective	
S2	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005 Research Method & Project Management ENG 4001A		Control E&E Engineering Elective (see elective table) E&E Engineering Elective (see elective table) ELEC ENG 4100		~Level II or III Mathematics Elective ~Level II or III Mathematics Elective 5		~Level II or III Mathematics Elective	
S2 S1	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005 Research Method & Project Management		Control E&E Engineering Elective (see elective table) E&E Engineering Elective (see elective table)	Year	~Level II or III Mathematics Elective ~Level II or III Mathematics Elective 5 ~Level III Mathematics Elective ~Level III Mathematics Elective		~Level II or III Mathematics Elective ~Level III Mathematics Elective	
S2 S1	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005 Research Method & Project Management ENG 4001A Research Project Part A		Control E&E Engineering Elective (see elective table) E&E Engineering Elective (see elective table) ELEC ENG 4100 Business Management Systems		~Level II or III Mathematics Elective ~Level II or III Mathematics Elective 5 ~Level III Mathematics Elective ~Level III Mathematics Elective 6		~Level III or III Mathematics Elective ~Level III Mathematics Elective ~Level III Mathematics Elective	
S2 S1	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005 Research Method & Project Management ENG 4001A Research Project Part A ENG 4001B		Control E&E Engineering Elective (see elective table) E&E Engineering Elective (see elective table) ELEC ENG 4100 Business Management Systems MECH ENG 4064	Year	~Level II or III Mathematics Elective ~Level II or III Mathematics Elective 5 ~Level III Mathematics Elective ~Level III Mathematics Elective 6 E&E Engineering Elective		~Level III or III Mathematics Elective ~Level III Mathematics Elective ~Level III Mathematics Elective E&E Engineering Elective	
\$2 \$1 \$2	Engineering Electromagnetics CHEM ENG 4048 Biofuels, Biomass and Wastes ENG 3005 Research Method & Project Management ENG 4001A Research Project Part A		Control E&E Engineering Elective (see elective table) E&E Engineering Elective (see elective table) ELEC ENG 4100 Business Management Systems	Year	~Level II or III Mathematics Elective ~Level II or III Mathematics Elective 5 ~Level III Mathematics Elective ~Level III Mathematics Elective 6		~Level III or III Mathematics Elective ~Level III Mathematics Elective ~Level III Mathematics Elective	

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

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms Last published 27 November 2021



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES							
Γ	COMP	SCI 2103	Algorithm Design & Data Structures		COMP SCI 2103	Algorithm Design & Data Structures	
	COMP	COMP SCI 3001 Computer Networks & Applications	S2	ELEC ENG 3108	Telecommunications Principles		
	ELEC E	ENG 4058	Power Quality & Condition Monitoring	32	ELEC ENG 4087	Electricity Market and Power System Operations	
	ELEC E	ENG 4109	Digital Microelectronics		MECH ENG 4145	Sustainable Thermal Technologies (not offered 2022)	

NOTES

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

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



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences - Mathematics Major - Semester 2 Start

Smart Technologies Major

						sinare recimions gros ma	,
			Year	1			
S1							
S2	MATHS 1011 Mathematics IA	PHYSICS 1510 Physics 1E: Mechanics & Thermodynamics		ELEC ENG 1102 Digital Electronics		ENG 1002 Programming (Matlab and C)	
			Year	2			
S1	MATHS 1012 Mathematics IB	COMP SCI 1102 Object Oriented Programming		^ENG 1001 Introduction to Engineering		ELEC ENG 1100 Analog Electronics	
S2	MATHS 2107 Statistics & Numerical Methods II	ELEC ENG 2103 Design & Innovation		ELEC ENG 2104 Digital Signal Processing		ELEC ENG 2106 Vector Calculus & Electromagnetics	
			Year	3			
S1	MATHS 2106 Differential Equations for Engineers II	ELEC ENG 2100 Digital Systems		ELEC ENG 2101 Electronic Circuits		ELEC ENG 2102 Electric Energy Conversion	
S2	ELEC ENG 4107 Autonomous Systems	COMP SCI 2103 Algorithm Design & Data Structures		MECH ENG 3032 Micro-Controller Programming		ENG 3004 Systems Engineering & Industry Practice	
		lr	nterns	ship			
	All Engineering students commencing from	n 2019 are required to complete a minimur	m of 8	weeks of internship during the course of the	eir st	tudies – see note below elective table.	
			Year	4			
S1	ELEC ENG 3101 Control	ELEC ENG 3103 Engineering Electromagnetics		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
S2	COMP SCI 4092 Mobile and Wireless Systems	E&E Engineering Elective (see elective table)		~Level II or III Mathematics Elective		~Level II or III Mathematics Elective	
			Year	5			
S1	COMP SCI 3001 Computer Networks & Applications	ENG 3005 Research Method & Project Management		~Level III Mathematics Elective		~Level III Mathematics Elective	
S2	ENG 4001A Research Project Part A	ELEC ENG 4100 Business Management Systems		~Level III Mathematics Elective		~Level III Mathematics Elective	
			Year	6			
S1	ENG 4001B Research Project Part B	E&E Engineering Elective (see elective table)		E&E Engineering Elective (see elective table)		E&E Engineering Elective (see elective table)	
Cor	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.

[~] Mathematics Electives may be chosen from the courses listed in the Program Rules for the Bachelor of Mathematics and Computer Sciences: https://calendar.adelaide.edu.au/faculty/ecms Last published 27 November 2021



Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences – Mathematics Major - Semester 2 Start

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ENGINEERING ELECTIVES									
	ELEC ENG 3088	Computer Architecture		COMP SCI 3006	Software Engineering & Project					
	ELEC ENG 4063	Communications		ELEC ENG 3108	Telecommunications Principles					
S1	ELEC ENG 4069	Radar Principles & Systems	S2	ELEC ENG 4061	Image Processing					
	ELEC ENG 4109	Digital Microelectronics		ELEC ENG 4067	Antennas & Propagation					
	ELEC ENG 4112	Signal Processing Applications								

NOTES

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

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