School of Electrical and Electronic Engineering

Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences - Mathematics Major – All Majors

Semester 1 Start

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

Bachelor of Engineering (Honours) (Electrical and Electronic) - Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Bachelor of Engineering (Honours) (Electrical and Electronic) - Smart Technologies Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Bachelor of Engineering (Honours) (Electrical and Electronic) - Defence Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Bachelor of Engineering (Honours) (Electrical and Electronic) - Medical Technologies Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Bachelor of Engineering (Honours) (Electrical and Electronic) - Communication Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

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

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

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

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

Year 1				
S1	^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐
Year 2				
S1	ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2	ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐
Year 3				
S1	ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2	ELEC ENG 3104 Electric Drive Systems ☐	ELEC ENG 3110 Electric Power Systems ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
Internship				
	All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.			
Year 4				
S1	ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3004 Interdisciplinary Professional Practice ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2	ELEC ENG 4105 Real-Time and Embedded Systems ☐	ELEC ENG 4106 Radio Frequency Systems ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐
Year 5				
S1	ENG 4001A Research Project Part A ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐
S2	ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	E&E Engineering Elective ☐	Level III Mathematics Elective ☐

Core Courses	Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES								
S1	COMP SCI 2103 Algorithm Design & Data Structures	☐	COMP SCI 3001 Computer Networks & Applications	☐	ELEC ENG 4058 Power Quality & Condition Monitoring	☐	ELEC ENG 4061 Image Processing	☐
			ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020	☐	ELEC ENG 4109 Digital Microelectronics	☐		
S2	COMP SCI 2103 Algorithm Design & Data Structures	☐	COMP SCI 3006 Software Engineering & Project	☐	ELEC ENG 3108 Telecommunications Principles	☐	ELEC ENG 4067 Antennas and Propagation	☐
	ELEC ENG 4107 Autonomous Systems	☐	ELEC ENG 4111 Distributed Generation Technology	☐	ELEC ENG 4115 Medical Instrumentation and Imaging	☐		

NOTES

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#Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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

Bachelor of Engineering (Honours) (Electrical and Electronic) - Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1			
S1 ^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2 PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐

Year 2			
S1 ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2 ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐

Year 3			
S1 ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2 ELEC ENG 3104 Electric Drive Systems ☐	ELEC ENG 3110 Electric Power Systems ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐

Internship
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.

Year 4			
S1 ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3004 Interdisciplinary Professional Practice ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2 ELEC ENG 4111 Distributed Generation Technologies ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Year 5			
S1 ENG 4001A Research Project Part A ☐	MECH ENG 4064 Renewable Power Technologies ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐
S2 ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	CHEM ENG 4048 Biofuels, Biomass and Wastes ☐	E&E Engineering Elective (see elective table) ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES							
S1	COMP SCI 2103 Algorithm Design & Data Structures	☐	COMP SCI 3001 Computer Networks & Applications	☐	ELEC ENG 4058 Power Quality & Condition Monitoring	☐	ELEC ENG 4109 Digital Microelectronics	☐
S2	COMP SCI 2103 Algorithm Design & Data Structures	☐	ELEC ENG 3108 Telecommunications Principles	☐	MECH ENG 4145 Sustainable Thermal Technologies	☐	ELEC ENG 4087 Electricity Market and Power System Operations	☐

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Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Bachelor of Engineering (Honours) (Electrical and Electronic) - Smart Technologies Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1				
S1	^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐
Year 2				
S1	ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2	ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐
Year 3				
S1	ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2	COMP SCI 2103 Algorithm Design & Data Structures ☐	MECH ENG 3032 Micro-Controller Programming ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.				
Year 4				
S1	ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3004 Interdisciplinary Professional Practice ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2	ELEC ENG 4107 Autonomous Systems ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
Year 5				
S1	ENG 4001A Research Project Part A ☐	COMP SCI 3001 Computer Networks & Applications ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐
S2	ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	COMP SCI 4092 Mobile and Wireless Systems ☐	E&E Engineering Elective (see elective table) ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S1 ELEC ENG 4061 Image Processing ☐	ELEC ENG 4063 Communications ☐	ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 ☐	ELEC ENG 4109 Digital Microelectronics ☐
S2 COMP SCI 3006 Software Engineering & Project ☐	ELEC ENG 3108 Telecommunications Principles ☐	ELEC ENG 4067 Antennas and Propagation ☐	

NOTES

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Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Defence Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1			
S1 ^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2 PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐

Year 2			
S1 ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2 ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐

Year 3			
S1 ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2 ENG 3305 Human Factors in Decision Making ☐	ELEC ENG 4107 Autonomous Systems ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐

Internship
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.

Year 4			
S1 ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3004 Interdisciplinary Professional Practice ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2 ELEC ENG 4106 Radio Frequency Systems ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Year 5			
S1 ENG 4001A Research Project Part A ☐	POLIS 1104 Introduction to Comparative Politics ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐
S2 ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	ENG 4010 Defence Leadership ☐	ENG 4020 Complex Systems Engineering ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S1 COMP SCI 2103 Algorithm Design & Data Structures ☐	COMP SCI 3001 Computer Networks & Applications ☐	ELEC ENG 4109 Digital Microelectronics ☐	ELEC ENG 4061 Image Processing ☐
ELEC ENG 4063 Communications ☐	ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 ☐		
S2 COMP SCI 2103 Algorithm Design & Data Structures ☐	ELEC ENG 3108 Telecommunications Principles ☐	ELEC ENG 4067 Antennas and Propagation ☐	ELEC ENG 4111 Distributed Generation Technology ☐

NOTES

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Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Medical Technologies Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1			
S1 ^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2 PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐

Year 2			
S1 ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2 ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐

Year 3			
S1 ANAT SC 1102 Human Anatomy and Physiology IA ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2 ANAT SC 2009 Musculoskeletal Anatomy ☐	ELEC ENG 4115 Medical Instrumentation and Imaging ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐

Internship
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.

Year 4			
S1 ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3101 Introduction to Medical Technologies ☐	Level III Mathematics Elective ☐
S2 ENG 3004 Interdisciplinary Professional Practice ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Year 5			
S1 ENG 4001A Research Project Part A ☐	PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems ☐	E&E Engineering Elective (see elective table) ☐	Level III Mathematics Elective ☐
S2 ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	E&E Engineering Elective (see elective table) ☐	MECH ENG 4101 Biomechanical Engineering ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S1	ANAT SC 2006 Foundations of Human Neuroanatomy ☐	ANAT SC 2109 Biology and Development of Human Tissues ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐	ELEC ENG 4109 Digital Microelectronics ☐
	ELEC ENG 4061 Image Processing ☐	ELEC ENG 4063 Communications ☐		
S2	COMP SCI 2103 Algorithm Design & Data Structures ☐	ELEC ENG 3108 Telecommunications Principles ☐	ELEC ENG 4067 Antennas and Propagation ☐	

NOTES

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Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Communication Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1				
S1	^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐
Year 2				
S1	ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2	ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐
Year 3				
S1	ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2	COMP SCI 2103 Algorithm Design & Data Structures ☐	ELEC ENG 3108 Telecommunications Principles ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.				
Year 4				
S1	ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3004 Interdisciplinary Professional Practice ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2	ELEC ENG 4054 Telecommunication Systems ☐	ELEC ENG 4106 Radio Frequency Systems ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐
Year 5				
S1	ENG 4001A Research Project Part A ☐	COMP SCI 3001 Computer Networks & Applications ☐	ELEC ENG 4063 Communications ☐	E&E Engineering Elective (see elective table) ☐
S2	ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	E&E Engineering Elective (see elective table) ☐	Level III Mathematics Elective ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S1	COMP SCI 3007 Artificial Intelligence ☐	ELEC ENG 4109 Digital Microelectronics ☐	ELEC ENG 4061 Image Processing ☐	ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 ☐
S2	ELEC ENG 4067 Antennas and Propagation ☐	ELEC ENG 4105 Real Time & Embedded Systems ☐		

NOTES

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Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

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

Year 1				
S1	^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐
Year 2				
S1	ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2	ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐
Year 3				
S1	ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2	COMP SCI 2103 Algorithm Design & Data Structures ☐	ELEC ENG 4105 Real Time & Embedded Systems ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.				
Year 4				
S1	ELEC ENG 3103 Engineering Electromagnetics ☐	ENG 3004 Interdisciplinary Professional Practice ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2	COMP SCI 3004 Operating Systems ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
Year 5				
S1	ENG 4001A Research Project Part A ☐	COMP SCI 3001 Computer Networks & Applications ☐	COMP SCI 3005 Computer Architecture ☐	ELEC ENG 4109 Digital Microelectronics ☐
S2	ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S1 COMP SCI 3007 Artificial Intelligence ☐	COMP SCI 3308 Cybersecurity Fundamentals ☐	ELEC ENG 4061 Image Processing ☐	
S2 COMP SCI 3006 Software Engineering & Project ☐	COMP SCI 3307 Secure Programming ☐	ELEC ENG 3104 Electric Drive Systems ☐	ELEC ENG 3108 Telecommunications Principles ☐
ELEC ENG 4106 Radio Frequency Systems ☐			

NOTES

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Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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Year 1			
S1 ^ENG 1001 Introduction to Engineering ☐	ELEC ENG 1100 Analog Electronics ☐	ENG 1002 Programming (Matlab and C) ☐	#MATHS 1011 Mathematics IA ☐
S2 PHYSICS 1510 Physics 1E Mechanics & Thermodynamics ☐	ELEC ENG 1102 Digital Electronics ☐	COMP SCI 1102 Object Oriented Programming ☐	MATHS 1012 Mathematics IB ☐

Year 2			
S1 ELEC ENG 2100 Digital Systems ☐	ELEC ENG 2101 Electronic Circuits ☐	ELEC ENG 2102 Electric Energy Conversion ☐	MATHS 2106 Differential Equations for Engineers II ☐
S2 ELEC ENG 2103 Design & Innovation ☐	ELEC ENG 2104 Digital Signal Processing ☐	ELEC ENG 2106 Vector Calculus & Electromagnetics ☐	MATHS 2107 Statistics & Numerical Methods II ☐

Year 3			
S1 COMP SCI 2103 Algorithm Design & Data Structures ☐	ELEC ENG 3101 Control ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐
S2 COMP SCI 2000 Computer Systems ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐	Level II or III Mathematics Elective ☐	Level II or III Mathematics Elective ☐

Internship
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below elective table.

Year 4			
S1 ELEC ENG 3100 Systems Engineering ☐	ELEC ENG 3103 Engineering Electromagnetics ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S2 ENG 3004 Interdisciplinary Professional Practice ☐	ENG 3005 Research Method and Project Management ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Year 5			
S1 ENG 4001A Research Project Part A ☐	COMP SCI 3308 Cybersecurity Fundamentals ☐	E&E Engineering Elective (see elective table) ☐	E&E Engineering Elective (see elective table) ☐
S2 ENG 4001B Research Project Part B ☐	ELEC ENG 4100 Business Management Systems ☐	COMP SCI 3004 Operating Systems UG ☐	COMP SCI 3307 Secure Programming ☐

Core Courses	Major Courses	Double Degree Courses

Electives Table

	CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S1	COMP SCI 3001 Computer Networks & Applications ☐	ELEC ENG 4061 Image Processing ☐	ELEC ENG 4063 Communications ☐	ELEC ENG 4109 Digital Microelectronics ☐
S2	COMP SCI 3006 Software Engineering & Project ☐	ELEC ENG 3104 Electric Drive Systems ☐	ELEC ENG 3108 Telecommunications Principles ☐	ELEC ENG 4105 Real Time & Embedded Systems ☐
	ELEC ENG 4106 Radio Frequency Systems ☐			

NOTES

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

#Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internship: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

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