



THE UNIVERSITY
of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences

2020 Study Plan

School of Electrical and Electronic Engineering

Bachelor of Engineering (Honours) (Electrical and Electronic) – All Majors

Semester 1 Start

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\)](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Renewable Energy Major](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Smart Technologies Major](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Defence Systems Major](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Medical Technologies Major](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Communication Systems Major](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Computer Engineering Major](#)

[Bachelor of Engineering \(Honours\) \(Electrical and Electronic\) - Cybersecurity Major](#)

Bachelor of Engineering (Honours) (Electrical and Electronic)

Year 1				
S 1	ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>
S 2	ELEC ENG 3104 Electric Drive Systems <input type="checkbox"/>	ELEC ENG 3110 Electric Power Systems <input type="checkbox"/>	ELEC ENG 4105 Real-Time and Embedded Systems <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>	ELEC ENG 4106 Radio Frequency Systems <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>

Core Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES

S 1	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	ELEC ENG 4058 Power Quality & Condition Monitoring <input type="checkbox"/>	ELEC ENG 4061 Image Processing <input type="checkbox"/>
	ELEC ENG 4063 Communications <input type="checkbox"/>	ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>	
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	ELEC ENG 4067 Antennas and Propagation <input type="checkbox"/>
	ELEC ENG 4107 Autonomous Systems <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technology <input type="checkbox"/>	ELEC ENG 4115 Medical Instrumentation and Imaging <input type="checkbox"/>	

NOTES

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

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>

Bachelor of Engineering (Honours) (Electrical and Electronic) - Renewable Energy Major

Year 1				
S 1	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>
S 2	ELEC ENG 3104 Electric Drive Systems <input type="checkbox"/>	ELEC ENG 3110 Electric Power Systems <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES				
S 1	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	ELEC ENG 4058 Power Quality & Condition Monitoring <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>	ELEC ENG 4087 Electricity Market and Power System Operations <input type="checkbox"/>

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Smart Technologies Major

Year 1				
S 1	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 4107 Autonomous Systems <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	COMP SCI 4092 Mobile and Wireless Systems <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES				
S 1	ELEC ENG 4061 Image Processing <input type="checkbox"/>	ELEC ENG 4063 Communications <input type="checkbox"/>	ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>
S 2	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	ELEC ENG 4067 Antennas and Propagation <input type="checkbox"/>	

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Defence Systems Major

Year 1				
S 1	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>
S 2	ELEC ENG 4106 Radio Frequency Systems <input type="checkbox"/>	ELEC ENG 4107 Autonomous Systems <input type="checkbox"/>	ENG 3305 Human Factors in Decision Making <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES				
S 1	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>	ELEC ENG 4061 Image Processing <input type="checkbox"/>
	ELEC ENG 4063 Communications <input type="checkbox"/>	ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 <input type="checkbox"/>		
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	ELEC ENG 4067 Antennas and Propagation <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technology <input type="checkbox"/>

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Medical Technologies Major

Year 1				
S 1	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ANAT SC 1102 Human Anatomy and Physiology IA <input type="checkbox"/>
S 2	ANAT SC 2009 Musculoskeletal Anatomy <input type="checkbox"/>	ELEC ENG 4115 Medical Instrumentation and Imaging <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems <input type="checkbox"/>	ENG 3101 Introduction to Medical Technologies <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES				
S 1	ANAT SC 2006 Foundations of Human Neuroanatomy <input type="checkbox"/>	ANAT SC 2109 Biology and Development of Human Tissues <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>
	ELEC ENG 4061 Image Processing <input type="checkbox"/>	ELEC ENG 4063 Communications <input type="checkbox"/>		
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	ELEC ENG 4067 Antennas and Propagation <input type="checkbox"/>	

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Communication Systems Major

Year 1				
S 1	ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	ELEC ENG 4106 Radio Frequency Systems <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	ELEC ENG 4063 Communications <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ELEC ENG 4054 Telecommunication Systems <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES			
S 1	COMP SCI 3007 Artificial Intelligence <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>	ELEC ENG 4061 Image Processing <input type="checkbox"/> ELEC ENG 4069 Radar Principles & Systems NOT OFFERED 2020 <input type="checkbox"/>
S 2	ELEC ENG 4067 Antennas and Propagation <input type="checkbox"/>	ELEC ENG 4105 Real Time & Embedded Systems <input type="checkbox"/>	

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Computer Engineering Major

Year 1				
S 1	ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>
S 2	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	ELEC ENG 4105 Real Time & Embedded Systems <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	COMP SCI 3005 Computer Architecture <input type="checkbox"/>	E&E Engineering Elective (See elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	COMP SCI 3004 Operating Systems <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>	E&E Engineering Elective (See elective table) <input type="checkbox"/>

Core Courses

Major Courses

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES				
S 1	COMP SCI 3007 Artificial Intelligence <input type="checkbox"/>	COMP SCI 3308 Cybersecurity Fundamentals <input type="checkbox"/>	ELEC ENG 4061 Image Processing <input type="checkbox"/>	
S 2	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	COMP SCI 3307 Secure Programming <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>
	ELEC ENG 4106 Radio Frequency Systems <input type="checkbox"/>			

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Bachelor of Engineering (Honours) (Electrical and Electronic) - Cybersecurity Major

Year 1				
S 1	ENG 1001 Introduction to Engineering <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>
S 2	PHYSICS 1510 Physics 1E Mechanics & Thermodynamics <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ELEC ENG 2100 Digital Systems <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ELEC ENG 2103 Design & Innovation <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>	ELEC ENG 2106 Vector Calculus & Electromagnetics <input type="checkbox"/>
Year 3				
S 1	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ELEC ENG 3101 Control <input type="checkbox"/>	ELEC ENG 3103 Engineering Electromagnetics <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <input type="checkbox"/>
S 2	COMP SCI 2000 Computer Systems <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	ENG 3005 Research Method and Project Management <input type="checkbox"/>
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				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 3308 Cybersecurity Fundamentals <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>	E&E Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	COMP SCI 3307 Secure Programming <input type="checkbox"/>	COMP SCI 3004 Operating Systems <input type="checkbox"/>	ELEC ENG 4100 Business Management Systems <input type="checkbox"/>

Electives Table

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC (E&E) ELECTIVES				
S 1	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	ELEC ENG 4061 Image Processing <input type="checkbox"/>	ELEC ENG 4063 Communications <input type="checkbox"/>	ELEC ENG 4109 Digital Microelectronics <input type="checkbox"/>
S 2	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles <input type="checkbox"/>	ELEC ENG 4105 Real Time & Embedded Systems <input type="checkbox"/>
	ELEC ENG 4106 Radio Frequency Systems <input type="checkbox"/>			

NOTES

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

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>