

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



2017 STUDY PLAN

FOR ADVANCED STANDING - OFFICE USE ONLY		
<input checked="" type="checkbox"/> Please mark the box to indicate advanced standing granted (use CONDITIONAL to denote conditional advanced standing)		
Student ID Number:	Student Name: ,	Date: 14/12/16
Assessor Name:	Advanced Standing Granted: units	Remaining Program Duration: 5 years
Applicant's Previous Institution:	Applicant's Previous Qualification:	
Assessor's Comments:		

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)					
YEAR 1	S1	COMP SCI 1201 Introduction to Programming for Engineers (3 units) <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics 1A (3 units)# <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S2	COMP SCI 1102 Object Oriented Programming (3 units) <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics 1B (3 units) <input type="checkbox"/>	PHYSICS 1510 Physics 1E: Mechanics and Thermodynamics (3 units) <input type="checkbox"/>
YEAR 2	S1	ELEC ENG 2100 Digital Systems (3 units) <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits(3 units) <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Maths IIA (3 units) <input type="checkbox"/>
	S2	ELEC ENG 2103 Design & Innovation (3 units) <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing (3 units) <input type="checkbox"/>	MATHS 2202 Engineering Maths IIB (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>

~Broadening electives may be chosen from any University of Adelaide undergraduate course for which the student meets the pre-requisites, is available to be taken by the student, has compatible timetabling and does not have the following course codes: ELEC ENG, MATHS or COMP SCI.

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in summer school.

Note the first two years of the Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences (Maths Major) degree are common regardless of the major students will choose to follow from year 3. Students may either continue with the standard degree, or choose one of the 5 available majors. Year 3, 4 and 5 study plans for each major are below.

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Standard Program					
YEAR 3	S1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 3106 Design of Radio Frequency Electronics (3 units) <input type="checkbox"/>
YEAR 4	S1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S1	ELEC ENG 4101A Electrical & Electronic Research Project Part 1 (6 units) <input type="checkbox"/>		Electrical & Electronic Major Elective (3 units) <input type="checkbox"/>	Electrical & Electronic Major Elective (3 units) <input type="checkbox"/>
	S2	ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4101B Electrical and Electronic Research Project Part 2 (3 units) <input type="checkbox"/>	ELEC ENG 3110 Electric Power Systems (3 units) <input type="checkbox"/>	Electrical & Electronic Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC ELECTIVES

SEMESTER 1	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications (3 units) <input type="checkbox"/>	ELEC ENG 3109 Digital Microelectronics (3 units) <input type="checkbox"/>	ELEC ENG 4058 Power Quality & Condition Monitoring (3 units) <input type="checkbox"/>
SEMESTER 2	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	COMP SCI 3004 Operating Systems UG (3 units) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>	ELEC ENG 3111 Distributed Generation Technology (3 units) <input type="checkbox"/>
	ELEC ENG 4067 Antennas and Propagation (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Autonomous Systems Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)					
YEAR 3	S1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	ELEC ENG 3107 Autonomous Systems (3 units) <input type="checkbox"/>
	S2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 4	S1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S1	ELEC ENG 4102A Autonomous Systems Research Project Part 1 (6 units) <input type="checkbox"/>		COMP SCI 3007 Artificial Intelligence (3 units) <input type="checkbox"/>	Autonomous Systems Major Elective (3 units) <input type="checkbox"/>
	S2	ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4102B Autonomous Systems Research Project Part 2 (3 units) <input type="checkbox"/>	Autonomous Systems Major Elective (3 units) <input type="checkbox"/>	Autonomous Systems Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING AUTONOMOUS SYSTEMS ELECTIVES				
SEMESTER 1	COMP SCI 3014 Computer Graphics (3 units) <input type="checkbox"/>	COMP SCI 3016 Computational Cognitive Science (3 units) <input type="checkbox"/>	COMP SCI 4022 Computer Vision (3 units) <input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>	ELEC ENG 4061 Image Processing (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Biomedical Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)					
YEAR 3	S1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems (3 units) <input type="checkbox"/>
	S2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3106 Design of Radio Frequency Electronics (3 units) <input type="checkbox"/>	Biomedical Major Elective (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 4	S1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S1	ELEC ENG 4103A Biomedical Research Project Part 1 (6 units) <input type="checkbox"/>		PHYSIOL 3001 Cellular & Systems Neurobiology (6 units) or PHYSIOL 3120 Neuromotor Control of Human Movement (3 units) and ANAT SC 2006 Foundations of Human Neuroanatomy (3 units) <input type="checkbox"/>	
	S2	ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4103B Biomedical Research Project Part 2 (3 units) <input type="checkbox"/>	ELEC ENG 4115 Biomedical Instrumentation (3 units) <input type="checkbox"/>	Biomedical Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING BIOMEDICAL ELECTIVES				
SEMESTER 1	ANAT SC 3103 Functional Human Neuroanatomy (3 units) <input type="checkbox"/>	COMP SCI 4022 Computer Vision (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 4061 Image Processing (3 units) <input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Communication Systems Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)					
YEAR 3	S1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	ELEC ENG 3106 Design of Radio Frequency Electronics (3 units) <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles (3 units) <input type="checkbox"/>
YEAR 4	S1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S1	ELEC ENG 4104A Communication Systems Research Project Part 1 (6 units) <input type="checkbox"/>		COMP SCI 3001 Computer Networks & Applications (3 units) <input type="checkbox"/>	Communication Systems Major Elective (3 units) <input type="checkbox"/>
	S2	ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4104B Communication Systems Research Project Part 2 (3 units) <input type="checkbox"/>	ELEC ENG 4054 Telecommunication Systems (3 units) <input type="checkbox"/>	Communication Systems Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING COMMUNICATION SYSTEMS ELECTIVES				
SEMESTER 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 4067 Antennas and Propagation (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Computer Engineering Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)					
YEAR 3	S1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3109 Digital Microelectronics (3 units) <input type="checkbox"/>	Computer Engineering Major Elective (3 units) <input type="checkbox"/>
	S2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 4	S1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S1	ELEC ENG 4105A Computer Engineering Research Project Part 1 (6 units) <input type="checkbox"/>		COMP SCI 3001 Computer Networks & Applications (3 units) <input type="checkbox"/>	COMP SCI 3005 Computer Architecture (3 units) <input type="checkbox"/>
	S2	ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4105B Computer Engineering Research Project Part 2 (3 units) <input type="checkbox"/>	Computer Engineering Major Elective (3 units) <input type="checkbox"/>	Computer Engineering Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING COMPUTER ENGINEERING ELECTIVES				
SEMESTER 1	COMP SCI 3014 Computer Graphics (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	COMP SCI 3004 Operating Systems UG (3 units) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Renewable Energy Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)					
YEAR 3	S1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	MECH ENG 4144 Renewable Fluid Power Technology (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3110 Electric Power Systems (3 units) <input type="checkbox"/>	ELEC ENG 3111 Distributed Generation Technology (3 units) <input type="checkbox"/>
YEAR 4	S1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S1	ELEC ENG 4106A Renewable Energy Research Project Part 1 (6 units) <input type="checkbox"/>		Renewable Energy Major Elective (3 units) <input type="checkbox"/>	Renewable Energy Major Elective (3 units) <input type="checkbox"/>
	S2	ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4106B Renewable Energy Research Project Part 2 (3 units) <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>	Renewable Energy Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING RENEWABLE ENERGY ELECTIVES				
SEMESTER 1	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	ELEC ENG 4058 Power Quality & Condition Monitoring (3 units) <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy (3 units) <input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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<input checked="" type="checkbox"/> Please mark the box to indicate advanced standing granted (use CONDITIONAL to denote conditional advanced standing)		
Student ID Number:	Student Name: ,	Date: 14/12/16
Assessor Name:	Advanced Standing Granted: units	Remaining Program Duration: 4 years
Applicant's Previous Institution:	Applicant's Previous Qualification:	
Assessor's Comments:		

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Semester 2 Start					
YEAR 1	S 2	COMP SCI 1201 Introduction to Programming for Engineers (3 units) <input type="checkbox"/>	ELEC ENG 1102 Digital Electronics (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics 1A (3 units)# <input type="checkbox"/>	PHYSICS 1510 Physics 1E: Mechanics and Thermodynamics (3 units) <input type="checkbox"/>
	S 1	COMP SCI 1102 Object Oriented Programming (3 units) <input type="checkbox"/>	ELEC ENG 1100 Analog Electronics (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics 1B (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 2	S 2	ELEC ENG 2103 Design & Innovation (3 units) <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing (3 units) <input type="checkbox"/>	MATHS 2202 Engineering Maths IIB (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S 1	ELEC ENG 2100 Digital Systems (3 units) <input type="checkbox"/>	ELEC ENG 2101 Electronic Circuits(3 units) <input type="checkbox"/>	ELEC ENG 2102 Electric Energy Conversion (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Maths IIA (3 units) <input type="checkbox"/>

~Broadening electives may be chosen from any University of Adelaide undergraduate course for which the student meets the pre-requisites, is available to be taken by the student, has compatible timetabling and does not have the following course codes: ELEC ENG, MATHS or COMP SCI.

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in summer school.

Note the first four semesters of the Bachelor of Engineering (Honours) (Electrical and Electronic) with Bachelor of Mathematical and Computer Sciences (Maths Major) degree are common regardless of the major students will choose to follow from year 3. Students may either continue with the standard degree, or choose one of the 5 available majors. Year 3, 4, 5 and 6 study plans for each major are below.

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) – Standard Program / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major)– Semester 2 Start					
YEAR 3	S 2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 3106 Design of Radio Frequency Electronics (3 units) <input type="checkbox"/>
YEAR 4	S 1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S 2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S 1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S 2	ELEC ENG 4101A Electrical & Electronic Research Project Part 1 (6 units) <input type="checkbox"/>		ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	Electrical & Electronic Major Elective (3 units) <input type="checkbox"/>
YEAR 6	S 1	ELEC ENG 4101B Electrical and Electronic Research Project Part 2 (3 units) <input type="checkbox"/>	ELEC ENG 3110 Electric Power Systems (3 units) <input type="checkbox"/>	Electrical & Electronic Major Elective (3 units) <input type="checkbox"/>	Electrical & Electronic Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING ELECTRICAL & ELECTRONIC ELECTIVES

SEMESTER 1	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications (3 units) <input type="checkbox"/>	ELEC ENG 3109 Digital Microelectronics (3 units) <input type="checkbox"/>	ELEC ENG 4058 Power Quality & Condition Monitoring (3 units) <input type="checkbox"/>
SEMESTER 2	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	COMP SCI 3004 Operating Systems UG (3 units) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>	ELEC ENG 3111 Distributed Generation Technology (3 units) <input type="checkbox"/>
	ELEC ENG 4067 Antennas and Propagation (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Autonomous Systems Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Semester 2 Start					
YEAR 3	S 2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 4	S 1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	ELEC ENG 3107 Autonomous Systems (3 units) <input type="checkbox"/>
	S 2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S 1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S 2	ELEC ENG 4102A Autonomous Systems Research Project Part 1 (6 units) <input type="checkbox"/>		ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	Autonomous Systems Major Elective (3 units) <input type="checkbox"/>
YEAR 6	S 1	ELEC ENG 4102B Autonomous Systems Research Project Part 2 (3 units) <input type="checkbox"/>	COMP SCI 3007 Artificial Intelligence (3 units) <input type="checkbox"/>	Autonomous Systems Major Elective (3 units) <input type="checkbox"/>	Autonomous Systems Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING AUTONOMOUS SYSTEMS ELECTIVES

SEMESTER 1	COMP SCI 3014 Computer Graphics (3 units) <input type="checkbox"/>	COMP SCI 3016 Computational Cognitive Science (3 units) <input type="checkbox"/>	COMP SCI 4022 Computer Vision (3 units) <input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>	ELEC ENG 4061 Image Processing (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Biomedical Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Semester 2 Start					
YEAR 3	S 2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3106 Design of Radio Frequency Electronics (3 units) <input type="checkbox"/>	Biomedical Major Elective (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 4	S 1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	PHYSIOL 2510 Physiology IIA: Heart, Lung & Neuromuscular Systems (3 units) <input type="checkbox"/>
	S 2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S 1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S 2	ELEC ENG 4103A Biomedical Research Project Part 1 (6 units) <input type="checkbox"/>		ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4115 Biomedical Instrumentation (3 units) <input type="checkbox"/>
YEAR 6	S 1	ELEC ENG 4103B Biomedical Research Project Part 2 (3 units) <input type="checkbox"/>	Biomedical Major Elective (3 units) <input type="checkbox"/>	PHYSIOL 3001 Cellular & Systems Neurobiology (6 units) or PHYSIOL 3120 Neuromotor Control of Human Movement (3 units) and ANAT SC 2006 Foundations of Human Neuroanatomy (3 units) <input type="checkbox"/>	

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING BIOMEDICAL ELECTIVES					
SEMESTER 1	ANAT SC 3103 Functional Human Neuroanatomy (3 units) <input type="checkbox"/>	COMP SCI 4022 Computer Vision (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 4061 Image Processing (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Communication Systems Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Semester 2 Start					
YEAR 3	S 2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	ELEC ENG 3106 Design of Radio Frequency Electronics (3 units) <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles (3 units) <input type="checkbox"/>
YEAR 4	S 1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S 2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S 1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S 2	ELEC ENG 4104A Communication Systems Research Project Part 1 (6 units) <input type="checkbox"/>		ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	ELEC ENG 4054 Telecommunication Systems (3 units) <input type="checkbox"/>
YEAR 6	S 1	ELEC ENG 4104B Communication Systems Research Project Part 2 (3 units) <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications (3 units) <input type="checkbox"/>	Communication Systems Major Elective (3 units) <input type="checkbox"/>	Communication Systems Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING COMMUNICATION SYSTEMS ELECTIVES				
SEMESTER 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 4067 Antennas and Propagation (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Computer Engineering Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Semester 2 Start					
YEAR 3	S 2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
YEAR 4	S 1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	ELEC ENG 3109 Digital Microelectronics (3 units) <input type="checkbox"/>	Computer Engineering Major Elective (3 units) <input type="checkbox"/>
	S 2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S 1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S 2	ELEC ENG 4105A Computer Engineering Research Project Part 1 (6 units) <input type="checkbox"/>		ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	Computer Engineering Major Elective (3 units) <input type="checkbox"/>
YEAR 6	S 1	ELEC ENG 4105B Computer Engineering Research Project Part 2 (3 units) <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications (3 units) <input type="checkbox"/>	COMP SCI 3005 Computer Architecture (3 units) <input type="checkbox"/>	Computer Engineering Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING COMPUTER ENGINEERING ELECTIVES

SEMESTER 1	COMP SCI 3014 Computer Graphics (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	COMP SCI 3004 Operating Systems UG (3 units) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	<input type="checkbox"/>

2017 STUDY PLAN

BE (HONOURS) (ELECTRICAL AND ELECTRONIC) (Renewable Energy Major) / BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Mathematics Major) – Semester 2 Start					
YEAR 3	S 2	ELEC ENG 3102 Project Management (3 units) <input type="checkbox"/>	ELEC ENG 3104 Electric Drive Systems (3 units) <input type="checkbox"/>	ELEC ENG 3110 Electric Power Systems (3 units) <input type="checkbox"/>	ELEC ENG 3111 Distributed Generation Technology (3 units) <input type="checkbox"/>
YEAR 4	S 1	ELEC ENG 3100 Systems Engineering (3 units) <input type="checkbox"/>	ELEC ENG 3101 Control (3 units) <input type="checkbox"/>	MECH ENG 4144 Renewable Fluid Power Technology (3 units) <input type="checkbox"/>	Broadening Elective (3 units)~ <input type="checkbox"/>
	S 2	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
YEAR 5	S 1	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level II or III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>	Level III Mathematics Elective (3 units)* <input type="checkbox"/>
	S 2	ELEC ENG 4106A Renewable Energy Research Project Part 1 (6 units) <input type="checkbox"/>		ELEC ENG 4100 Business Management Systems (3 units) <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>
YEAR 6	S 1	ELEC ENG 4106B Renewable Energy Research Project Part 2 (3 units) <input type="checkbox"/>	Renewable Energy Major Elective (3 units) <input type="checkbox"/>	Renewable Energy Major Elective (3 units) <input type="checkbox"/>	Renewable Energy Major Elective (3 units) <input type="checkbox"/>

*Please refer to the program rules for the Bachelor of Mathematical and Computer Sciences for elective choices and the definition of an Applied Maths, Pure Maths, Statistics or Mathematical Sciences major.

CHOOSE FROM THE FOLLOWING RENEWABLE ENERGY ELECTIVES

SEMESTER 1	ELEC ENG 3103 Electromagnetics (3 units) <input type="checkbox"/>	ELEC ENG 4058 Power Quality & Condition Monitoring (3 units) <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy (3 units) <input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ELEC ENG 3105 Real Time & Embedded Systems (3 units) <input type="checkbox"/>	ELEC ENG 3108 Telecommunications Principles (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>