

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)								
Unspecified Elective Credit:	Level 1:	units	Level 2:	units	Level 3:	units	Level 4:	units
Student ID Number:			Student Name:			Date: 6/12/16		
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).

BACHELOR OF ENGINEERING (HONOURS) (MECHANICAL & AEROSPACE) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Computer Science Major)					
YEAR 1	S1	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems (3 units) <input type="checkbox"/>	MECH ENG 1102 Introduction to Aerospace Engineering (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>
	S2	COMP SCI 1102 Object Oriented Programming (3 units) <input type="checkbox"/>	MECH ENG 1006 Design Graphics & Professional Practice (3 units) <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>
YEAR 2	S1	MECH ENG 2100 Design Practice (3 units) <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>
	S2	CHEM ENG 1009 Materials 1 (3 units) <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I (3 units) <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design (3 units) <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB (3 units) <input type="checkbox"/>
YEAR 3	S1	MECH ENG 3026 Aerospace Materials & Structures (3 units) <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering (3 units) <input type="checkbox"/>	COMP SCI 2000 Computer Systems (3 units) <input type="checkbox"/>	COMP SCI2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>
	S2	MECH ENG 2101 Mechatronics IM (3 units) <input type="checkbox"/>	MECH ENG 3027 Engineering Systems Design & Professional Practice (3 units) <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II (3 units) <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis (3 units) <input type="checkbox"/>
YEAR 4	S1	MECH ENG 3102 Heat Transfer & Thermodynamics (3 units) <input type="checkbox"/>	MECH ENG 3105 Sustainability & the Environment (3 units) <input type="checkbox"/>	Level III Computer Science Elective (3 units) <input type="checkbox"/>	Level II or III Computer Science Elective (3 units) <input type="checkbox"/>

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YEAR 5	S2	MECH ENG 3101 Applied Aerodynamics (3 units) <input type="checkbox"/>	MECH ENG 3104 Space Vehicle Design (3 units) <input type="checkbox"/>	Level III Computer Science Elective (3 units) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>
	S1	MECH ENG 4143A Honours Project Part A (3 units) <input type="checkbox"/>	MECH ENG Level 4 Elective Course (3 units) <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion (3 units) <input type="checkbox"/>	Level III Computer Science Elective (3 units) <input type="checkbox"/>
	S2	MECH ENG 4143B Honours Project Part B (6 units) <input type="checkbox"/>		MECH ENG 4108 Aircraft Design (3 units) <input type="checkbox"/>	MECH ENG 4100 Advanced Topics in Aerospace Engineering (3 units) <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	MECH ENG 4102 Advanced PID Control (3 units) <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis (3 units) <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations (3 units) <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications (3 units) <input type="checkbox"/>
	MECH ENG 4112 Combustion Technology & Emission Control (3 units) <input type="checkbox"/>	<input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures (3 units) <input type="checkbox"/>	MECH ENG 4124 Robotics M (3 units) <input type="checkbox"/>
	MECH ENG 4104 Advanced Topics in Fluid Mechanics (3 units) <input type="checkbox"/>	MECH ENG 4144 Renewable Fluid Power Technology (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	CHEM ENG 4032 Composites & Multiphase Polymers (3 units) <input type="checkbox"/> ^NOT OFFERED 2017	MECH ENG 4107 Airconditioning (3 units) <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering (3 units) <input type="checkbox"/>	MECH ENG 4114 Corrosion: Principles & Prevention (3 units) <input type="checkbox"/>
	MECH ENG 4115 Engineering Acoustics (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells (3 units) <input type="checkbox"/>	<input type="checkbox"/>
	MECH ENG 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUMMER	<input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>	<input type="checkbox"/>

#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 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Computer Science Elective may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

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Unspecified Elective Credit:	Level 1:	units	Level 2:	units	Level 3:	units	Level 4:	units
Student ID Number:			Student Name:			Date: 6/12/16		
Assessor Name:			Advanced Standing Granted: units			Remaining Program Duration: 4 years		
Applicant's Previous Institution:			Applicant's Previous Qualification:					
Assessor's Comments:								

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BACHELOR OF ENGINEERING (HONOURS) (MECHANICAL AND AEROSPACE) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Computer Science Major) – Semester 2 intake					
YEAR 1	S 2	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>	MECH ENG 1006 Design Graphics & Professional Practice (3 units) <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics (3 units) <input type="checkbox"/>	CHEM ENG 1009 Materials 1 (3 units) <input type="checkbox"/>
	S 1	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems (3 units) <input type="checkbox"/>	MECH ENG 1102 Introduction to Aerospace Engineering (3 units) <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>
YEAR 2	S 2	MATHS 2202 Engineering Mathematics IIB (3 units) <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I (3 units) <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design (3 units) <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming (3 units) <input type="checkbox"/>
	S 1	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>	MECH ENG 2100 Design Practice (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I (3 units) <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers (3 units) <input type="checkbox"/>
YEAR 3	S 2	MECH ENG 2101 Mechatronics IM (3 units) <input type="checkbox"/>	MECH ENG 3027 Engineering Systems Design & Professional Practice (3 units) <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II (3 units) <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis (3 units) <input type="checkbox"/>
	S 1	MECH ENG 3026 Aerospace Materials & Structures (3 units) <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering (3 units) <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics (3 units) <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing (3 units) <input type="checkbox"/>

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YEAR 5	S 2	MECH ENG 3101 Applied Aerodynamics (3 units) <input type="checkbox"/>	MECH ENG 3104 Space Vehicle Design (3 units) <input type="checkbox"/>	COMP SCI 2000 Computer Systems (3 units) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>
	S 1	MECH ENG 4143A Honours Project Part A (3 units) <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion (3 units) <input type="checkbox"/>	MECH ENG Level 4 Elective Course (3 units) <input type="checkbox"/>	MECH ENG 3105 Sustainability & the Environment (3 units) <input type="checkbox"/>
	S 2	MECH ENG 4143B Honours Project Part B (6 units) <input type="checkbox"/>		MECH ENG 4108 Aircraft Design (3 units) <input type="checkbox"/>	MECH ENG 4100 Advanced Topics in Aerospace Engineering (3 units) <input type="checkbox"/>
YEAR 6	S 1	Level III Computer Science Elective (3 units)* <input type="checkbox"/>	Level III Computer Science Elective (3 units)* <input type="checkbox"/>	Level III Computer Science Elective (3 units)* <input type="checkbox"/>	Level II or III Computer Science Elective (3 units)* <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	MECH ENG 4102 Advanced PID Control (3 units) <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis (3 units) <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations (3 units) <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications (3 units) <input type="checkbox"/>
	MECH ENG 4112 Combustion Technology & Emission Control (3 units) <input type="checkbox"/>		MECH ENG 4118 Finite Element Analysis of Structures (3 units) <input type="checkbox"/>	MECH ENG 4124 Robotics M (3 units) <input type="checkbox"/>
	MECH ENG 4104 Advanced Topics in Fluid Mechanics (3 units) <input type="checkbox"/>	MECH ENG 4144 Renewable Fluid Power Technology (3 units) <input type="checkbox"/>		
SEMESTER 2	CHEM ENG 4032 Composites & Multiphase Polymers (3 units) <input type="checkbox"/> ^NOT OFFERED 2017	MECH ENG 4107 Airconditioning (3 units) <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering (3 units) <input type="checkbox"/>	MECH ENG 4114 Corrosion: Principles & Prevention (3 units) <input type="checkbox"/>
	MECH ENG 4115 Engineering Acoustics (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge (3 units) <input type="checkbox"/>
	MECH ENG 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>			
SUMMER		MECH ENG 4115 Engineering Acoustics (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>	

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