

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) AND BACHELOR OF ARTS					
YEAR 1	S1	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	MECH ENG 1100 Introduction of Mechanical Engineering (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media (3 units) <input type="checkbox"/>
	S2	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"/>	Arts Major Level I (3 units) <input type="checkbox"/>
YEAR 2	S1	ELEC ENG 1101 Electronic Systems (3 units) <input type="checkbox"/>	MECH ENG 2100 Design Practice (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>	Arts Major Level I or II (3 units) <input type="checkbox"/>
	S2	CHEM ENG 1009 Materials 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"/>	Arts Elective Level II (3 units) <input type="checkbox"/>
YEAR 3	S1	MECH ENG 2020 Materials & Manufacturing (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I (3 units) <input type="checkbox"/>	Arts Arts Major Level II (3 units) <input type="checkbox"/>	Arts Major Level II (3 units) <input type="checkbox"/>
	S2	MECH ENG 2019 Dynamics & Control I (3 units) <input type="checkbox"/>	MECH ENG 2101 Mechatronics IM (3 units) <input type="checkbox"/>	Arts Major Level III (3 units) <input type="checkbox"/>	Arts Major Level III (3 units) <input type="checkbox"/>

2017 STUDY PLAN

YEAR 4	S1	MECH ENG 3030 Structural Design & Solid Mechanics (3 units) <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics (3 units) <input type="checkbox"/>	MECH ENG 3103 Manufacturing Engineering & Quality Systems (3 units) <input type="checkbox"/>	MECH ENG 3105 Sustainability & the Environment (3 units) <input type="checkbox"/>
	S2	MATHS 2104 Numerical Methods II (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"/>	MECH ENG 3101 Applied Aerodynamics (3 units) <input type="checkbox"/>
YEAR 5	S1	MECH ENG 4143A Honours Project Part A (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>
	S2	MECH ENG 4143B Honours Project Part B (6 units) <input type="checkbox"/>		Arts Major Level III Capstone course (6 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 4144 Renewable Fluid Power Technology (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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4107 Airconditioning (3 units) <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells (3 units) <input type="checkbox"/>	<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 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>
	ENTREP 3900 Entrepreneurs Challenge (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUMMER	MECH ENG 4126 Topics in Welded Structures (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"/>	<input type="checkbox"/>

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#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.

Arts Electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Arts. Students must complete a major in accordance with the Program Rules for the Bachelor of Arts. Students commencing prior to 2016 may follow an earlier study plan or contact the Faculty of Arts for enrolment advice.

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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:								

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) WITH BACHELOR OF ARTS – Semester 2 Start					
YEAR 1	S 2	MECH ENG 1006 Design Graphics & Professional Practice (3 units) <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units) <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media (3 units) <input type="checkbox"/>
	S 1	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	MECH ENG 1100 Introduction of Mechanical Engineering (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>	Arts Major Level 1 (3 units) <input type="checkbox"/>
YEAR 2	S 2	CHEM ENG 1009 Materials 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"/>	Arts Major Level I or II (3 units) <input type="checkbox"/>
	S 1	ELEC ENG 1101 Electronic Systems (3 units) <input type="checkbox"/>	MECH ENG 2100 Design Practice (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>	Arts Elective Level II (3 units) <input type="checkbox"/>
YEAR 3	S 2	MECH ENG 2019 Dynamics & Control I (3 units) <input type="checkbox"/>	MECH ENG 2101 Mechatronics IM (3 units) <input type="checkbox"/>	Arts Major Level II (3 units) <input type="checkbox"/>	Arts Major Level II (3 units) <input type="checkbox"/>
	S 1	MECH ENG 2020 Materials & Manufacturing (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I (3 units) <input type="checkbox"/>	MECH ENG 3103 Manufacturing Engineering & Quality Systems (3 units) <input type="checkbox"/>	MECH ENG 3030 Structural Design & Solid Mechanics (3 units) <input type="checkbox"/>

2017 STUDY PLAN

YEAR 5	S 2	MATHS 2104 Numerical Methods II (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"/>	MECH ENG 3101 Applied Aerodynamics (3 units) <input type="checkbox"/>
	S 1	MECH ENG 4143A Honours Project Part A (3 units) <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics (3 units) <input type="checkbox"/>	MECH ENG 3105 Sustainability & the Environment (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>
	S 2	MECH ENG 4143B Honours Project Part B (6 units) <input type="checkbox"/>		Engineering Elective (3 units) <input type="checkbox"/>	Arts Major Level III (3 units) <input type="checkbox"/>
YEAR 6	S 1	Engineering Elective (3 units) <input type="checkbox"/>	Arts Major Level III (3 units) <input type="checkbox"/>	Arts Major Level III Capstone course (6 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 4144 Renewable Fluid Power Technology (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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4107 Airconditioning (3 units) <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells (3 units) <input type="checkbox"/>	<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 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>
	ENTREP 3900 Entrepreneurs Challenge (3 units)			
SUMMER	MECH ENG 4126 Topics in Welded Structures (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"/>	<input type="checkbox"/>

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