

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

<b>FOR ADVANCED STANDING - OFFICE USE ONLY</b>		
<input checked="" type="checkbox"/> Please mark the box to indicate advanced standing granted (use <b>CONDITIONAL</b> to denote conditional advanced standing)		
Unspecified Elective Credit:          units		
Student ID Number:	Student Name: _____,	Date: 3/02/17
Assessor Name:	Advanced Standing Granted:          units	Remaining Program Duration: 2 years
Applicant's Previous Institution:	Applicant's Previous Qualification:	
Assessor 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).

MASTER OF COMPUTING & INNOVATION				
YEAR 1	S1	COMP SCI 7202 Foundations of Computer Science (6 units)	General Elective (3 units)**	One of: ENTREP 5016 Entrepreneurship & Innovation <input type="checkbox"/> ENTREP 5018 Opportunity Assessment <input type="checkbox"/> PROJMGNT 5021 Applied Project Management 1 <input type="checkbox"/> ENTREP 7022 Creativity & Innovation (3 units) <input type="checkbox"/>
	S2	COMP SCI 7081 Computer Systems (3 units) <input type="checkbox"/>	COMP SCI 7201 Algorithm & Data Structure Analysis (3 units) <input type="checkbox"/>	COMP SCI 7064 Operating Systems (3 units) <input type="checkbox"/> One of: ENTREP 5016 Entrepreneurship & Innovation <input type="checkbox"/> ENTREP 5018 Opportunity Assessment <input type="checkbox"/> PROJMGNT 5021 Applied Project Management 1 <input type="checkbox"/> ENTREP 7022 Creativity & Innovation (3 units) <input type="checkbox"/>

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

YEAR 2	S1	COMP SCI 7098 Master of Computing & Innovation Project (9 units) <input type="checkbox"/>			COMP SCI 7039 Computer Networks and Applications (3 units) <input type="checkbox"/>
	S2	COMP SCI 7015 Software Engineering & Project (3 units) <input type="checkbox"/>	COMP SCI 7094 Distributed Databases & Data Mining or COMP SCI 7306 Mining Big Data (3 units)# <input type="checkbox"/>	General Elective (3 units) or Advanced Elective (3 units) or ECIC Elective (3 units) <input type="checkbox"/>	General Elective (3 units) <input type="checkbox"/>

### CHOOSE FROM THE FOLLOWING ELECTIVES

GENERAL ELECTIVES	COMP SCI 7089 Event Driven Computing (3 units) <input type="checkbox"/>	COMP SCI 7026 Computer Architecture (3 units) <input type="checkbox"/>	COMP SCI 7090 Computer Graphics (3 units) <input type="checkbox"/>	COMP SCI 7305 Parallel and Distributed Computing (3 units) <input type="checkbox"/>
	COMP SCI 7059 Artificial Intelligence (3 units) <input type="checkbox"/>	COMP SCI 7027 Computational Cognitive Science (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7307 Secure Programming (3 units)* <input type="checkbox"/>	COMP SCI 7306 Mining Big Data (3 units) <input type="checkbox"/>
	COMP SCI 7076 Distributed Systems (3 units)~ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ADVANCED ELECTIVES	COMP SCI 7022 Computer Vision (3 units) <input type="checkbox"/>	COMP SCI 7005 Adaptive Business Intelligence (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7009 Modern Heuristic Methods (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7007 Specialised Programming (3 units) <input type="checkbox"/>
	COMP SCI 7023 Software Process Improvement (3 units) <input type="checkbox"/>	COMP SCI 7045 Distributed High Performance Computing (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7077 Solving Engineering Models (3 units) <input type="checkbox"/>	COMP SCI 7091 Commercialising IT Research (3 units) <b>^NOT OFFERED 2017</b> <input type="checkbox"/>
	COMP SCI 7036 Software Engineering in Industry (3 units) <input type="checkbox"/>	COMP SCI 7409 Search Based Software Engineering (3 units) <input type="checkbox"/>	COMP SCI 7407 Advanced Algorithms (3 units) <input type="checkbox"/>	<input type="checkbox"/>

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

	COMP SCI 7044 Computer System Security (3 units)* <b>^NOT OFFERED 2017</b> <input type="checkbox"/>	COMP SCI 7093 Evolutionary Computation (3 units) <input type="checkbox"/>	COMP SCI 7000 Software Architecture (3 units) <b>^NOT OFFERED 2017</b> <input type="checkbox"/>	COMP SCI 7092 Mobile & Wireless Systems (3 units)~ <input type="checkbox"/>
	COMP SCI 7402 Introduction to Geometric Algorithms (3 units) <input type="checkbox"/>	COMP SCI 7401 Introduction to Statistical Machine Learning (3 units) <input type="checkbox"/>	COMP SCI 7010 Special Topics in Computer Science A (3 units) <b>^NOT OFFERED 2017</b> <input type="checkbox"/>	COMP SCI 7012 Special Topics in Computer Science B (3 units) <b>^NOT OFFERED 2017</b> <input type="checkbox"/>
ECIC ELECTIVES	ENTREP 5016 Entrepreneurship & Innovation (3 units) <input type="checkbox"/>	PROJMGNT 5021 Applied Project Management 1 (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Any other TECHCOMM, PROJMGNT or ENTREP course offered by the Entrepreneurship, Commercialisation and Innovation Centre (3 units) <input type="checkbox"/>	ENTREP 5018 Opportunity Assessment (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ECIC TRIMESTER OFFERINGS	ENTREP 7022 Creativity & Innovation (3 units)			

\*\*Unless exempted by the Faculty, all international students are required to undertake a specialist course ELEC ENG 7057 Engineering Communication & Critical Thinking. This course must be completed in the first semester of study and will be presented in lieu of a general elective.

#All students are required to complete at least one course from the below elective stream.

Data and Information Management Stream

COMP SCI 7094 Distributed Databases & Data Mining (3 units)

COMP SCI 7306 Mining Big Data (3 units)

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

<b>FOR ADVANCED STANDING - OFFICE USE ONLY</b>		
<input type="checkbox"/> Please mark the box to indicate advanced standing granted (use <b>CONDITIONAL</b> to denote conditional advanced standing)		
Unspecified Elective Credit:          units		
Student ID Number:	Student Name:          ,	Date: 3/02/17
Assessor Name:	Advanced Standing Granted:          units	Remaining Program Duration: 2 years
Applicant's Previous Institution:	Applicant's Previous Qualification:	
Assessor 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).

### MASTER OF COMPUTING & INNOVATION – Semester 2 Start

YEAR 1	S2	COMP SCI 7202 Foundations of Computer Science (6 units) <input type="checkbox"/>	General Elective (3 units)** <input type="checkbox"/>	One of: ENTREP 5016 Entrepreneurship & Innovation <input type="checkbox"/> ENTREP 5018 Opportunity Assessment <input type="checkbox"/> PROJMGNT 5021 Applied Project Management 1 <input type="checkbox"/> ENTREP 7022 Creativity & Innovation (3 units) <input type="checkbox"/>
	S1	COMP SCI 7081 Computer Systems (3 units) <input type="checkbox"/>	General Elective (3 units) <input type="checkbox"/>	COMP SCI 7039 Computer Networks & Applications (3 units) <input type="checkbox"/> General Elective (3 units) <input type="checkbox"/> or Advanced Elective (3 units) <input type="checkbox"/> or ECIC Elective (3 units) <input type="checkbox"/>

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

YEAR 2	S2	COMP SCI 7015 Software Engineering & Project (3 units) <input type="checkbox"/>	COMP SCI 7201 Algorithm & Data Structure Analysis (3 units) <input type="checkbox"/>	COMP SCI 7064 Operating Systems (3 units) <input type="checkbox"/>	General Elective (3 units) (Suggested elective - COMP SCI 7094 Distributed Databases & Data Mining) <input type="checkbox"/>
	S1	COMP SCI 7098 Master of Computing & Innovation Project (9 units) <input type="checkbox"/>			One of: ENTREP 5016 Entrepreneurship & Innovation ENTREP 5018 Opportunity Assessment PROJMGNT 5021 Applied Project Management 1 ENTREP 7022 Creativity & Innovation (3 units) <input type="checkbox"/>

### CHOOSE FROM THE FOLLOWING ELECTIVES

GENERAL ELECTIVES	COMP SCI 7307 Secure Programming (3 units)* <input type="checkbox"/>	COMP SCI 7026 Computer Architecture (3 units) <input type="checkbox"/>	COMP SCI 7090 Computer Graphics (3 units) <input type="checkbox"/>	COMP SCI 7305 Parallel and Distributed Computing (3 units) <input type="checkbox"/>
	COMP SCI 7059 Artificial Intelligence (3 units) <input type="checkbox"/>	COMP SCI 7027 Computational Cognitive Science (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7306 Mining Big Data (3 units) <input type="checkbox"/>	<input type="checkbox"/>
	COMP SCI 7076 Distributed Systems (3 units)~ <input type="checkbox"/>	COMP SCI 7089 Event Driven Computing (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ADVANCED ELECTIVES	COMP SCI 7022 Computer Vision (3 units) <input type="checkbox"/>	COMP SCI 7005 Adaptive Business Intelligence (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7009 Modern Heuristic Methods (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7007 Specialised Programming (3 units) <input type="checkbox"/>
	COMP SCI 7023 Software Process Improvement (3 units) <input type="checkbox"/>	COMP SCI 7045 Distributed High Performance Computing (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7077 Solving Engineering Models (3 units) <input type="checkbox"/>	COMP SCI 7091 Commercialising IT Research (3 units) <b>^NOT OFFERED 2017</b> <input type="checkbox"/>

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

	COMP SCI 7036 Software Engineering in Industry (3 units)	COMP SCI 7409 Search Based Software Engineering (3 units)	COMP SCI 7093 Evolutionary Computation (3 units)	COMP SCI 7407 Advanced Algorithms (3 units)
	COMP SCI 7007 Specialised Programming (3 units) <input type="checkbox"/>	COMP SCI 7044 Computer System Security (3 units)* <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7000 Software Architecture (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7092 Mobile & Wireless Systems (3 units)~ <input type="checkbox"/>
	COMP SCI 7402 Introduction to Geometric Algorithms (3 units) <input type="checkbox"/>	COMP SCI 7401 Introduction to Statistical Machine Learning (3 units) <input type="checkbox"/>	COMP SCI 7010 Special Topics in Computer Science A (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>	COMP SCI 7012 Special Topics in Computer Science B (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>
ECIC ELECTIVES	ENTREP 5016 Entrepreneurship & Innovation (3 units) <input type="checkbox"/>	PROJMGNT 5021 Applied Project Management 1 (3 units) <input type="checkbox"/>		<input type="checkbox"/>
	Any other TECHCOMM, PROJMGNT or ENTREP course offered by the Entrepreneurship, Commercialisation and Innovation Centre (3 units) <input type="checkbox"/>	ENTREP 5018 Opportunity Assessment (3 units) <input type="checkbox"/>		<input type="checkbox"/>
ECIC TRIMESTER OFFERINGS	ENTREP 7022 Creativity & Innovation (3 units)			

\*\*Unless exempted by the Faculty, all international students are required to undertake a specialist course ELEC ENG 7057 Engineering Communication & Critical Thinking. This course must be completed in the first semester of study and will be presented in lieu of a general elective.

#All students are required to complete at least one course from the below elective stream.

Data and Information Management Stream

COMP SCI 7094 Distributed Databases & Data Mining (3 units)

COMP SCI 7306 Mining Big Data (3 units)