

RECOMMENDED STUDY PLAN**2019-**

NAME _____

DEGREE PROGRAM BScMAJOR Data Science (DSC)**Level 1**

SP1	SP2
Degree Core: SC1101	Degree Opt Core SC1102* OR SC1109-ADV BSc <i>*SC1102 requires Maths B from high school or MA1020.</i>
Degree Core: MA1000-Mathematical Foundation	Degree Core: MA1003-Mathematical Techniques
Major Opt Core: MA1000-Mathematical Foundation PH1005 <i>recommended</i>	Major Core: MA1580-Data Science
Elective/Minor:	Elective/Minor:

**Note-SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.*

Level 2

SP1	SP2
Degree Opt Core Skill: SC2202 OR SC2209-ADV BSc (or BZ2001 for SC2202 before 2018)	Degree Opt Core Skill-List 9:
Major Opt Core-List1:	Major Core: MA2405-Advanced Statistical Modelling
Elective/Minor:	Major Opt Core-List1:
Elective/Minor:	Elective/Minor:

Level 3

SP1	SP2
Degree Core: SC3008-Professional Placement (can be done in any SP)	
Degree Core: SC3010-Sensors and Sensing for Scientists	Major Core: MA3405-Statistical Data Mining for Big Data
Major Core: MA3832-Machine Learning OR MA-3212 Optimisation and Operations Research*	Major Core: MA3831-Big Data*
Elective/Minor:	Elective/Minor:
Elective/Minor:	

**Note-These subjects are not offered for 2019 and are not available till 2020.*

List of Major Subjects Available to this Discipline: <u>List 1</u>	
SP1	SP2
Major Core: CP 2404-Database Modelling	Major Core: MA 2210-Linear Algebra
Major Core: MA 2211-Discrete Mathematics	Major Core: MA2830-Data Visualisation*

**Note-This subject is not offered for 2019 and is not available until 2020.*

List of Breadth Subjects Available to this Discipline: <u>List 5</u>	
SP1	SP2
CP1401 Fundamentals of Problem Solving and Programming I OR CP1404-Programming II – both available in SP1 and SP2 **	
BM1000-Introductory Biochemistry and Microbiology	BS1001-Intro Biol. Processes-TSV OR BZ1005-Intro Ecology-CNS
BS1007-Intro to Biodiversity-TSV OR BZ1006-Diversity of Life-CNS	CH1002-Chemistry: Principles & Applications-TSV only
CH1011- Chemistry-CNS OR CH1001-TSV	EA1110-Evolution of the Earth
EV1005-Environ Processes & Global Change	PH1007-Advanced Stream Physics 2-TSV only
PH1005-Advanced Stream Physics 1	MA1003-Mathematical Techniques

***CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.*

List BSc Opt Skill Subjects Available to this Discipline: <u>List 9</u>	
SP1	SP2
PH2222:03 Sensors and Sensing for Scientists-SP 6 *	
CP2404-Database Modelling	EV2502-GIS
	CH2103-Analytical Chemistry

**Note-This subject has been replaced by SC3010: Sensors and Sensing for Scientists and is a core subject for all science students at Level 3.*