

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

Mid-Year Entry 2021

JOR Mathematics (MTM) – TSV only after 1st Semester
you consult with your CSE Course/Major Advisor and

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to <u>Subject Search</u>. If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

The College of Science and Engineering has implemented screening testing in this degree so that students who are suitably qualified can replace core preparatory subjects with elective subjects. The screening tests **must** be completed even if Senior Chemistry or Maths Methods (or equivalent) have been studied at secondary school.

		Study Period 2 - SP2
		Degree Core: CH1020 Preparatory Chemistry # # This core subject may be replaced by an elective if you pass the chemistry screening test (held during orientation week). The screening test needs to be completed even if Senior Chemistry (or equivalent) has been studied at secondary school.
Year 1	MID-YEAR	Degree Opt Core SC1102 Modelling Natural Systems PREREQ: MA1020 OR SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
×	ENTRY	Major Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C
		Elective/Minor/2 nd Major: This would be the Degree Core - <u>MA1020</u> Preparatory Math but the assumption is the student has passed the screening test and passed relevant Maths at secondary school.
		CP1401 Problem Solving and Programming I OR CP1404 Programming II - Recommended PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201 Program and should be taken instead of SC1102 if you are consider

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

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: SC1101 Science Technology and Truth	Degree Opt Core Breadth-List 1:
Year 2	Degree Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT OR SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Opt Core <u>Skill-List 2</u> :
	Major Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: MA2210 Linear Algebra PREREQ: MA1003
	Major Core: MA2211 Discrete Mathematics PREREQ: MATHS B	Elective/Minor/2 nd Major:

SP3 (Jan-Feb)

Major Core: <u>MA1003</u> Mathematical

Techniques
PREREQ: MA1000 OR MA1011 OR MA1009

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	Major Core: MA3210 Probability and Stochastic Processes PREREQ: MA2000 AND (MA2210 OR MA2201-Numerical Mathematics)
	Major Core: MA3211 Mathematical Modelling and Differential Equations PREREQ: MA2000 AND (MA2210 OR MA2201 Numerical Mathematics)	Major Core: MA3212 Optimisation and Operations Research PREREQ: MA2000 AND (MA2210 OR MA2201 Numerical Mathematics)
	Elective/Minor/2 nd Major:	Elective/Minor/2 nd Major:
	Elective/Minor/2 nd Major:	Elective/Minor/2 nd Major: <u>MA2405</u> Advanced Statistical Modelling - Recommended PREREQ: MA1401 OR MA2401 OR SC2202/SC2209

Year 4	Study Period 1 - SP1	
	Degree Core: <u>SC3008</u> Professional Placement - available any SP	MID-YEAR COMPLETION
	Degree Opt Core Breadth-List 1:	
	Elective/Minor/2 nd Major:	

Further Degree Options:

Breadth-List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP1401</u> Problem So	olving and Programming I
	<u>OR</u>
<u>CP1404</u> Programming II	
PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201	
both subjects ava	ilable in SP1 and SP2 **
BM1000 Introductory Biochemistry and	
Microbiology – TSV only	BS1001 Introduction to Biological Processes
PREREQ: CH1020 OR SENIOR CHEMISTRY	
BS1007 Introduction to Biodiversity –TSV only	
OR	EA1110 Evolution of the Earth
BZ1006 Diversity of Life – CNS only	
EG1000 Engineering 1	PH1007 Advanced Stream Physics 2 – TSV only PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
EV1005 Environmental Processes & Global Change	
PH1005 Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	

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

<u>Skill-List 2</u> :	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP2404</u> Database Modelling	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS