HONOURS IN BIOMATHEMATICS 2021

SU Dates

15 March – 30 April	Quarter 1	
10 May – 18 June	Quarter 2	
21 June – 12 July	A2 or first examination opportunity	
13-24 July	A3 or second examination opportunity	
10 August – 17 September	Quarter 3	
27 September – 5 November	Quarter 4	
8 November – 30 November	A2 or first examination opportunity	
1 December – 11 December	A3 or second examination opportunity	

721: Computational and Discrete Methods in Biomathematics (16 credits)

SU TW782: Applied Markov Processes

Hugo Touchette (August – November)

722: Non-linear dynamical systems in Biomathematics (16 credits)

SU Module

Convener (TBC) (August-November)

723: Advanced Topics in Biomathematics I (8 credits)

AIMS-SA: Introduction to Random Systems, Information Theory, related topics

Stéphane Ouvry (22 March to 9 April)

724: Advanced Topics in Biomathematics II (8 credits)

AIMS-SA: Biophysics at the Microscale

Daisuke Takagi (10-28 May)

725: Selected Topics in Biological Sciences (8 credits)

AIMS-SA: Algebraic Biology

Matt Macauley (31 May-18 June)

726: Selected Topics in Biomedical Sciences (8 credits)

AIMS-SA: Symmetry Analysis of Differential Equations

Khalique Masood (10-28 May)

748: Advanced Topics in Biomathematics III (16 credits)

AIMS-SA: Mathematical Modelling in Medicine and Public Health

Pulliam et al (dates TBC)

749 Advanced Topics in Biomathematics IV (8 credits)

AIMS-SA: Analytical Techniques in Mathematical Biology

Lyndsay Kerr (12-30 April)

745: Elective Module (8 credits): at least one of the following

AIMS-SA: Fluid Dynamics

Grae Worster and Richard Katz (12-30 April)

AIMS-SA: Risk Management and Insurance Economics

Juerg Weber (UWA) (31 May-18 June)

AIMS-SA: Data Science

Bubacarr Bah, Pete Grindrod and Hans-Georg Zimmerman (1-19 March)

SU TW782: Graph Theory

Riana Roux (July-October)

747: Honours project: Biomathematics Research Project (32 credits)

SU: August – November

AIMS-SA Lecture Blocks	Module	Lecturer
1-19 March	Data Science	Bubacarr Bah, Pete
		Grindrod and Hans-
		Georg Zimmerman
22 March-9 April	Introduction to Random Systems,	Stéphane Ouvry
	Information Theory and related	
	topics	
12-30 April	Analytical Techniques in	Lyndsay Kerr
	Mathematical Biology	
12-30 April	Fluid Dynamics	Grae Worster and
		Richard Katz
10-28 May	Biophysics at the Microscale	Daisuke Takagi
10-28 May	Symmetry Analysis of Differential	Khalique Masood
	Equations	
31 May-18 June	Algebraic Biology	Matt Macauley
31 May – 18 June	Risk Management and Insurance	Juerg Weber
	Economics	
Other courses offered (not		
for credit)		
22-26 February	Introduction to Computing and	Jan Groenewald
	LaTeX	
1-19 March	Python Programming	Paul Taylor and
		Martha Kamkuemah
22 March-9 April	Networks	Phil Knight
22 March-9 April	Introduction to Multiscale Models	Jacek Banasiak
	and their Analysis	
10-28 May	Probability and Statistics	Daniel Nickelsen
Dates TBC	MMED Wokshop	SACEMA

You may take additional courses while at AIMS-SA that will not count towards your credits – those in grey in the table or more than one of the courses in italics.

Other courses available at AIMS-SA can be seen at:

https://aims.ac.za/wp-content/uploads/sites/6/2021/01/Courses-and-abstracts-January-2021-intake.pdf

You are welcome to attend any of these, if your timetable permits.

Course Abstracts can be seen on the AIMS course page at:

https://aims.ac.za/wp-content/uploads/sites/6/2021/01/Courses-and-abstracts-January-2021-intake.pdf