



AIMS

**African Institute for
Mathematical Sciences
SOUTH AFRICA**

AIMS STRUCTURED MASTER'S IN MATHEMATICAL SCIENCES

SKILLS AND REVIEW COURSES 2019

Dates 2019	Course title	Lecturer	Affiliation
	Computing & LaTeX	Jan Groenewald and tutors	AIMS South Africa
7-25 Jan	Python	Jeff Sanders, Martha Kamkuemah and Jordan Masakuna	AIMS South Africa
	Algebraic Number Theory	Peter Stevenhagen & Rene Schoof	Leiden & Tor Vergata
	Fluid Dynamics	Herbert Huppert & Richard Katz	University of Cambridge and University of Oxford
	Financial Mathematics	Ronnie Becker	AIMS South Africa
28 Jan- 15 Feb	Introduction to Random Systems, Information Theory, and related topics	Stéphane Ouvry	Université Paris Sud XI
	Experimental Mathematics with Sage	Eric Andriantiana	Rhodes University
	Industrial Modelling	Neville Fowkes	University of Western Australia
	Quantum Mechanics	Herbert Weigel	Stellenbosch University
18-22 Feb	Reading week		
25 Feb - 1 March	Entrepreneurship case studies	Stefan Jaehnichen	TU Berlin
25 Feb - 15 Mar	Mathematical Problem Solving	TBC	
	Analytical Techniques in Mathematical Biology	Wilson Lamb	Strathclyde University
	Computational Algebra	Wolfram Decker and Gerhard Pfister	TU Kaiserslautern
	General Relativity	Costas Zoubos	University of Pretoria
18 Mar - 5 Apr	Solitons	Patrick Dorey	Durham University

	Algebraic Biology	Elena Dimitrova	Clemson University
	Energy	Emma Spurlock	Strathclyde University
	Statistics	Jeff Sanders (using Spiegelhalter video)	AIMS South Africa
8-12 April	Reading week		
15 Apr - 3 May	Insurance Economics	Juerg Weber	University of Western Australia
	Surfaces	Steve Bradlow	University of Illinois at Urbana-Champaign
6-17 May	Asymptotics & Perturbation Methods	Peter Clarkson Kerstin Jordaan	University of Kent & UNISA
	Data Science	Bubacarr Bah and Jeff Sanders	AIMS South Africa
20 May - 7 Jun	Decision Making	Simukai Utete	AIMS South Africa
	Numerical Maths	Justin Munyakazi	University of the Western Cape
10-28 Jun	TBC		
October 2019	Entrepreneurship	Jonathan Marks	Gordon Institute of Business Studies
October 2019	Physical Problem Solving	David Aschman	University of Cape Town