



AIMS

**African Institute for
Mathematical Sciences
SOUTH AFRICA**

AIMS STRUCTURED MASTER'S IN MATHEMATICAL SCIENCES

SKILLS AND REVIEW COURSES 2020

Dates 2020	Course title	Lecturer	Affiliation
6 January onwards	Computing & LaTeX	Jan Groenewald and tutors	AIMS South Africa
6-24 Jan	Python	Jeff Sanders, Lebeko Poulou & Martha Kamkuemah	AIMS South Africa
	Fluid Dynamics	Grae Worster & Richard Katz	University of Cambridge and University of Oxford
	Financial Mathematics	Ronnie Becker	AIMS South Africa
	Model Theory	Charlotte Kestner	Imperial College London
27 Jan- 14 Feb	Experimental Mathematics with Sage	Eric Andriantiana	Rhodes University
	Introduction to Random Systems, Information Theory, and related topics	Stéphane Ouvry	Université Paris Sud XI
	Industrial Modelling	Neville Fowkes	University of Western Australia
	Networks	Phil Knight	Strathclyde University
24 Feb - 13 Mar	Entrepreneurship case studies	Stefan Jaehnichen	TU Berlin
	Statistics	David Spiegelhalter video Daniel Nickelsen	Cambridge University AIMS South Africa
	Analytical Techniques in Mathematical Biology	Wilson Lamb	Strathclyde University
	Computational Algebra	Wolfram Decker and Gerhard Pfister	TU Kaiserslautern
	Atmospheric Modeling	Douw Steyn Stefano Galmarini	University of British Columbia Institute for Environment and Sustainability
16 Mar - 3 Apr	Algebraic Biology	Matt Macauley	Clemson University

	Mathematical Problem Solving	Nancy Neudauer	Pacific University
6-24 April	Insurance Economics	Juerg Weber	University of Western Australia
	Designing Algorithms	Jeff Sanders	AIMS South Africa
27 April - 1 May	Reading week		
4-22 May	Distributed Coordination	Simukai Utete	AIMS South Africa
	Data Science	Bubacarr Bah and Emmanuel Dufourq	AIMS South Africa
25 May - 12 Jun	Programming with Julia	Henri Laurie	University of Cape Town
	Multiobjective Optimization	Surafel Tilahun	University of Zululand
15 June - 3 July	Symmetry Analysis of Differential Equations	Masood Khaliq	North West University
	Numerical Mathematics	Justin Munyakazi	University of the Western Cape
October 2020	Entrepreneurship	Jonathan Marks	Gordon Institute of Business Studies
October 2020	Physical Problem Solving	David Aschman	University of Cape Town