

**NANYANG TECHNOLOGICAL UNIVERSITY  
SCHOOL OF PHYSICAL & MATHEMATICAL SCIENCES**

**DIVISION OF MATHEMATICAL SCIENCES**

**MAS 110                      INTRODUCTION TO SCIENTIFIC COMPUTING**

**Prescribed Text**

John R. Hubbard, *Schaum's Outlines Programming with C++*, McGraw Hill, 2<sup>nd</sup> Edition 2000  
(Call no: QA76.73C153 H875S 2000)

**MAS 111                      FOUNDATION OF MATHEMATICS**

**Prescribed Text**

Susanna S. Epp, *Discrete Mathematics with Applications*, Thomson Brooks/Cole, 3<sup>rd</sup> Edition  
(Call no: QA39.2.E64 2004)

**Other References**

Kenneth H. Rosen, *Discrete Mathematics with Its Applications*, McGraw Hill, 6<sup>th</sup> Edition  
(QA39.2.R813 2007)

James A. Anderson, *Discrete Mathematics with Combinatorics*, Prentice Hall, 2<sup>nd</sup> Edition 2003  
(QA39.2.A547 2004)

**MAS 112                      CALCULUS I**

**Prescribed Text**

James Stewart, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

**Other References**

Michael Spivak, *Calculus*, Publish or Perish, 4<sup>th</sup> Edition 1994 (QA303.S849 2008)

**MAS 113                      CALCULUS II**

**Prescribed Text**

James Stewart, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

**MAS 114                      LINEAR ALGEBRA I**

**Prescribed Text**

H. Anton & C. Rorres, *Elementary Linear Algebra with Applications*, Wiley, 9<sup>th</sup> Edition 2005  
(Call no: QA184.A634 2005)

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**MAS 181                      CALCULUS FOR THE SCIENCES I**

**Prescribed Text**

James Steward, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

**MAS 182                      CALCULUS FOR THE SCIENCES II**

**Prescribed Text**

James Steward, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

**MAS 183                      LINEAR ALGEBRA AND MULTIVARIABLE CALCULUS**

**Prescribed Text**

H.Anton and C. Rorres, *Elementary Linear Algebra*, John Wiley & Sons, 9<sup>th</sup> Edition  
(Call no: QA184.A634 2005)

**MAS 211                      CALCULUS III**

**Prescribed Text**

James Steward, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

**Other References**

Michael Spivak, *Calculus*, Publish or Perish, 4<sup>th</sup> Edition 1994 (QA303.S849 2008)

**MAS 212                      CALCULUS IV**

**Prescribed Text**

James Steward, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

**MAS 213                      LINEAR ALGEBRA II**

**Prescribed Text**

Friedberg S. H, Insel A. J & Spence L. E., *Linear Algebra*, Prentice Hall, 4<sup>th</sup> Edition 2003  
(Call no: QA184.3.F899)

**NANYANG TECHNOLOGICAL UNIVERSITY  
SCHOOL OF PHYSICAL & MATHEMATICAL SCIENCES**

**MAS 214                      BASIC DISCRETE MATHEMATICS AND NUMBER THEORY**

**Prescribed Text**

Susanna S. Epp, *Discrete Mathematics with Applications*, Thomson Brooks/Cole, 3<sup>rd</sup> Edition  
(Call no: QA39.2.E64 2004)

**MAS 215                      PROBABILITY AND STATISTICS I**

**Prescribed Text**

Sheldon Ross, *A First Course in Probability*, Pearson Prentice Hall, 8<sup>th</sup> Edition 2010  
(Call no: QA273.R826F 2010)

**MAS 216                      MATHEMATICAL EXPOSITION**

**Other References**

Nicholas J.Higham, *Handbook of writing for Mathematical Sciences*, 2<sup>nd</sup> Edition 1998  
(Call no: QA42.H638 1998)

**MAS 281                      COMPLEX METHODS FOR SCIENCES**

**Prescribed Text**

Arfken and Weber, *Mathematical Methods for Physicists*, Academic Press, 6<sup>th</sup> Edition 2005  
(Call no: QA37.2.A685 2005)

**MAS 311                      REAL ANALYSIS I**

**Prescribed Text**

W.Rudin, *Principles of Mathematical Analysis* , McGraw Hill, 3<sup>rd</sup> Edition 1976 (Call no: QA300.R916P)

**MAS 312                      COMPLEX ANALYSIS**

**Prescribed Text**

Brown J. W. & Churchill R. V, *Complex Variables and Applications*, McGraw Hill, 8<sup>th</sup> Edition  
(Call no: QA331.7.B878 2009)

**Other Reference s**

Ahlfors L. V., *Complex Analysis*, McGraw Hill, 3<sup>rd</sup> Edition (QA331.A285)

Greene R. E & Krantz S G, *Function Theory of One Complex Variable*, 3<sup>rd</sup> Edition (QA331.7.G811 2006)









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**MAS 455**

**CLINICAL TRIALS**

**Prescribed Text**

Thomas D. Cook & David L DeMets, *Introduction to Statistical Methods for Clinical Trials*, Chapman & Hall/CRC, 1<sup>st</sup> Edition 2007 (Call no: R853.C55I61)

**Other References**

Lawrence M. Friedman, Curt D. Furberg and David DeMets, *Fundamental of Clinical Trials*, Springer, 3<sup>rd</sup> Edition 1999 (R853.C55F911)

**MAS 456**

**SURVIVAL ANALYSIS**

**Prescribed Text**

Elisa T. Lee & John Wenyu Wang, *Statistical Methods for Survival Data Analysis*, Wiley-InterScience, 3<sup>rd</sup> Edition 2003 (Call no: R853.S7L477)

**MAS 712**

**ALGEBRAIC METHODS**

**References**

D. S. Dummit & R. M. Foote, *Abstract Algebra*, John Wiley & Sons, 3<sup>rd</sup> Edition 2004 (Call no: QA 162.D8989)

T. W. Hungerford, *Algebra*, Springer-Verlag, New York-Berlin, 2<sup>nd</sup> Edition 1974 (QA155.H936)

*Abstract Algebra: The Basic Graduate Year (Revised 11/02), Online Lecture Notes*,  
<http://www.math.uiuc.edu/~r-ash/Algebra.html>

**MAS 713**

**MATHEMATICAL STATISTICS**

**Prescribed Text**

George Casella and Roger Berger, *Statistical Inference*, Duxbury, 2<sup>nd</sup> Edition 2001 (Call no: QA276.C337 2002)

Jun Shao, *Mathematical Statistics*, Springer, 2<sup>nd</sup> Edition 2003 (QA276.S528 2003)

**Other References**

Peter J. Bickel and Kjell A. Doksu, *Mathematical Statistics: Basics Ideas and Selected Topics*, Prentice Hall, 2<sup>nd</sup> Edition 2001 (QA276.B583 2001 V1)



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**MATH 1A                      CALCULUS OF ONE VARIABLE**

**Prescribed Text**

James Steward, *Calculus (International Student Edition)*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009  
(Call no: QA303.2.S849 2008)

Michael Spivak, *Calculus*, Publish or Perish, 4<sup>th</sup> Edition 1994 (QA303.S761 2008)

**MATH 1B                      CALCULUS OF SEVERAL VARIABLES**

**Prescribed Text**

James Steward, *Calculus*, Thomson Brooks/Cole, 6<sup>th</sup> Edition 2009 (Call no: QA303.2.S849 2008)

Friedberg S. H, Insel A. J & Spence L. E., *Linear Algebra*, Prentice Hall, 4<sup>th</sup> Edition 2003 (QA184.2.F899)

**MATH 1C                      LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS**

**Prescribed Text**

Goode S. W. & Scott A.A, *Differential Equations and Linea Algebra*, Prentice Hall, 3<sup>rd</sup> Edition 2007  
(Call no: QA371.G647 2007)