Cricos Provider Code: 00098G

1	Matlab programming; IEEE standard 754
2	Floating point arithmetic; Linear systems (vector and matrix norms, sensitivity analysis)
3	Linear systems (LU factorization, Cholesky factorization); Interpolation
4	Interpolation and least squares (Newton interpolation, interpolation errors, least squares)
5	Nonlinear equations (Bisection, fixed point iterations, Newton's method)
7	Quadrature (Newton-Cotes rules, Gaussian rules)
8	Ordinary differential equations (Euler's method, Heun's methods, Runge-Kutta methods)
9	Ordinary differential equations (multistep methods, stiff equations)
10	Systems of ordinary differential equations- Review for Final Exam

- R. Pratap, Getting Started with MATLAB, 7th edition, Oxford University Press, 2002.
- K. Sigmon and T. A. Davis, MATLAB Primer - 6th Edition, CRC Press, 2001.
- D. Hanselman and B. Littlefield, Mastering MATLAB - 6: A Comprehensive Tutorial and Reference, Prentice-Hall, 2001.
- D. J. Higham and N. J. Higham, MATLAB Guide, SIAM, 2000.
- C. Moler, Numerical Computing with MATLAB http://mathworks.com/moler
- P. Linz and R. Wang, Exploring Numerical Methods -- An Introduction to Scientific Computing Using MATLAB

Textbooks are recommended only, not compulsory.

Log in to Moodle to find announcements, general information, notes, lecture slide, classroom tutorial and assessments etc.

https://moodle.telt.unsw.edu.au

The main computing laboratory is Room G012 of the Red Centre. You can get to this lab by entering the building through the main entrance to the School of Mathematics (on the Mezzanine Level) and then going down the stairs to the Ground Level. A second smaller lab is Room M020, on the mezzanine level of the Red Centre.

For more information, including opening hours, see the computing facilities webpage: https://www.unsw.edu.au/science/our-schools/maths/student-life-resources/student-services/computing-information/computing-facilities

- from low SES backgrounds
- of diverse genders, sexes and sexualities
- from refugee and refugee-like backgrounds
- from rural and remote backgrounds
- who are the first in their family to undertake a bachelor-level degree.

Their web site is: https://student.unsw.edu.au/els/services

Equitable Learning Services (ELS) may determine that your condition requires special arrangements for assessment tasks. Once the School has been notified of these, we will make every effort to meet the arrangements specified by ELS.

Additionally, if you have suffered significant misadventure that affects your ability to complete the course, please contact your Lecturer-in-charge in the first instance.

The Learning Centre offers academic support programs to all students at UNSW Australia. We assist students to develop approaches to learning that will enable them to succeed in their academic study. For further information on these programs please go to:

http://www.lc.unsw.edu.au/services-programs

Please adhere to the Special Consideration Policy and Procedures provided on the web page below when applying for special consideration.

https://student.unsw.edu.au/special-consideration

Please note that the application is not considered by the Course Authority, it is considered by a centralised team of staff at the Nucleus Student Hub.

The School will contact you (via student email account) after special consideration has been granted to reschedule your missed assessment, for a lab test or paper-based test only.

For applications for special consideration for assignment extensions, please note that the new submission date and/or outcomel cat sbe9(s)bt5e9 ( )11.2 (out)-6.7 a11.2 (s)-2 TjEMC /P <e.6 (c)-2 hF raEugh
725ET/Artifact BM

Student feedback is very important to continual course improvement. This is demonstrated within the School of Mathematics and Statistics by the implementation of the UNSW online student survey myExperience, which allows students to evaluate their learning experiences in an anonymous way. myExperience survey reports are produced for each survey. They are released to staff after all student assessment results are finalised and released to students. Course convenor will use the feedback to make ongoing improvements to the course.