Overview

Linear algebra: Vector spaces, linear transformations, change of basis, inner products, orthogonalization, least squares approximation, QR factorization, determinants, eigenvalues and eigenvectors, diagonalization, Jordan forms, matrix exponentials and applications to systems of differential equations, other applications of linear algebra. Probability and statistics: Sample spaces, probability, random variables and probability distributions, standard discrete and continuous distributions, multivariate distributions, Central Limit Theorem, statistical inference, confidence intervals and hypothesis testing, linear regression, inference in the linear model. Matlab will be used in this course.
**Faculty**
Faculty of Science

**School**
School of Mathematics & Statistics

**Study Level**
Undergraduate

**Offering Terms**
Term 2

**Campus**
Kensington

**Delivery Mode**
Fully on-site

**Indicative contact hours**
8

**Timetable**
Visit timetable website for details
Conditions for Enrolment

Prerequisite: MATH1231 or DPST1014 or MATH1241 or MATH1251 Exclusion: MATH2501 and MATH2601
## Exclusion Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>UOC</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH2801</td>
<td>6</td>
<td>Theory of Statistics</td>
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<tr>
<td>BEES2041</td>
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<td>Data Analysis for Life and Earth Sciences</td>
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<tr>
<td>MATH2901</td>
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<td>Higher Theory of Statistics</td>
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<td>BIOS2041</td>
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<tr>
<td>MATH2089</td>
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<td>Numerical Methods and Statistics</td>
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</tbody>
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Course Outline

To access course outline, please visit:

MATH2099 Course Outline
Fees

Commonwealth Supported Students  $1191  
Domestic Students  $5970  
International Students  $5970  

DISCLAIMER
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179