



Course

Fundamentals of Mathematics B

MATH1011 | 6 Units of Credit

Overview

Functions (and their inverses), limits, asymptotes, continuity; differentiation and applications; integration, the definite integral and applications; inverse trigonometric functions; the logarithmic and exponential functions and applications; sequences and series; mathematical induction; the binomial theorem and applications; introduction to probability theory; introduction to 3-dimensional geometry; introduction to linear algebra.

Assumed knowledge: A level of knowledge equivalent to achieving a mark of at least 60 in HSC Mathematics. Students who have taken General Mathematics will not have achieved the level of knowledge which is assumed in this course.

Note: This course is not intended for students who propose to study a substantial amount of Mathematics beyond first year level. Many later year courses in Mathematics have completion of MATH1231, MATH1241 or MATH1251 as a prerequisite. This course can be taken as a preparatory course by students who need to take MATH1131 but do not meet the assumed knowledge requirement.

This course is not available as a General Education Course or as an Elective where students have met the assumed knowledge of Mathematics and Mathematics Extension 1.

Faculty

Faculty of Science

School

School of Mathematics & Statistics

Study Level

Undergraduate

Offering Terms

Term 1, Term 3

Campus

Kensington

Delivery Mode

Partially online

Indicative contact hours

2

Timetable

[Visit timetable website for details](#)

Conditions for Enrolment

Exclusion: Not enrolled in 3991 or any UNSW Business Program

Exclusion Courses

ECON1202 | 6 UOC

Quantitative Analysis for Business and Economics

DPST1013 | 6 UOC

Mathematics 1A

MATH1151 | 6 UOC

Mathematics for Actuarial Studies and Finance 1A

MATH1141 | 6 UOC

Higher Mathematics 1A

MATH1131 | 6 UOC

Mathematics 1A

ECON2291 | 6 UOC

Quantitative Analysis for Business and Economics (Arts)

MATH1031 | 6 UOC

Mathematics for Life Sciences

Course Outline

To access course outline, please visit:

[MATH1011 Course Outline](#)

Fees

Commonwealth Supported Students \$1170

Domestic Students \$5760

International Students \$5760

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. Fees for courses delivered through [UNSW Global](#) are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

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](#)

© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

Authorised by Deputy Vice-Chancellor (Academic)

CRICOS Provider Code 00098G

ABN: 57 195 873 179