



Course

Discrete Mathematics

MATH1081

6 Units of Credit

Role of proof in mathematics, logical reasoning and implication, different types of proofs. Sets, algebra of sets, operations on sets. Mathematical logic, truth tables, syntax, induction. Graphs and directed graphs, basic graph algorithms. Counting, combinatorial identities, binomial and multinomial theorems. Binary operations and their properties, ordered structures. Recursion relations. Assumed knowledge: HSC Mathematics Extension 1. Students will be expected to have achieved a combined mark of at least 100 in Mathematics and Mathematics Extension 1.

Faculty

Faculty of Science

School

School of Mathematics & Statistics

Study Level

Undergraduate

Offering Terms

Term 1, Term 2, Term 3

Campus

Kensington

Delivery Mode

Partially online

Indicative contact hours

7

Timetable

[Visit timetable website for details](#)

Conditions for Enrolment

Corequisite: MATH1131 or MATH1141 or MATH1151.

Exclusion Courses

MATH1090 | 3 UOC

Discrete Mathematics for Electrical Engineers

Course Outline

To access course outline, please visit:

[MATH1081 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