

Course Title:	Mathematics for Computing
Course Code:	MATH503
Descriptor Start Date:	01/01/2021
Descriptor End Date:	30/01/2023
POINTS:	15.00
LEVEL:	5
PREREQUISITE/S:	None
COREQUISITE/S:	None
RESTRICTION/S:	None

LEARNING HOURS

Hours may include lectures, tutorials, online forums, laboratories. Refer to your timetable and course information in Canvas for detailed information.

Total learning hours: 150

PRESCRIPTOR

Provides an introduction to the mathematical and statistical concepts required for an understanding of the analysis of data and applications in computing. Topics include sets, functions, relations, matrix operations, probability, probability distributions and statistical measures.

LEARNING OUTCOMES

1. Define matrices and perform matrix operations.
2. Evaluate functions and relations.
3. Use sets to solve problems involving logical thinking.
4. Calculate probabilities involving counting and identify basic probability distributions.
5. Compute and interpret basic statistical measures.

CONTENT

- Functions, relations and sets
- Matrices
- Matrix operations
- Basic probability
- Probability distributions
- Statistical measures

Disclaimer: Course descriptors may be amended between teaching periods/semesters

LEARNING & TEACHING STRATEGIES

Lectures will be used to present the material, with computer labs to support individual and practical group exercises.

ASSESSMENT PLAN

Assessment Event	Weighting %	Learning Outcomes
Portfolio	30.00	1,2,3,4,5
Assignment	25.00	1,2,3,4,5
Problem-Solving Questionnaire	45.00	1,2,3,4,5

Grade Map

MAP1

A+ A A- Pass with Distinction

B+ B B- Pass with Merit

C+ C C- Pass

D Fail

Overall requirement/s to pass the course:

To pass the course, the student needs to obtain a minimum grade of C- overall and have attempted the Problem Solving Questionnaire assessment event.

LEARNING RESOURCES

Recommended reading lists, including library resources, will be provided.

For further information, contact: Te Ara Auaha - Faculty of Design & Creative Technologies

Principal Programme: AK3697, Bachelor of Computer and Information Sciences

Related Programme/s: AK3003
AK3706

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