

Course Title: **Foundation Mathematics**

Course Code: **MATH400**

Descriptor Start Date: **01/01/2026**

POINTS: **15.00**

LEVEL: **4**

PREREQUISITE/S: **NCEA Level 1 Maths – 12 credits**

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 students with the ability to demonstrate mathematical skills, concepts and understanding in number, algebra and trigonometry. For students to be able to apply these skills and to select and use appropriate mathematical techniques in problem solving.

## LEARNING OUTCOMES

1. Simplify and evaluate algebraic expressions.
2. Apply the rules of indices and find subjects of formulae involving indices.
3. Expand and factorize algebraic expressions including quadratics.
4. Graph and use linear and quadratic functions. Solve linear, quadratic and simultaneous equations.
5. Graph and use exponential functions.
6. Use trigonometry to solve right-angled triangle problems

## CONTENT

- Fundamental Algebra
- Indices
- Linear and quadratic equations
- Systems of 2 x2 equations
- Graphing of linear, exponential and quadratic functions
- The trigonometry of right-angled triangles

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

## LEARNING & TEACHING STRATEGIES

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Lectures, tutorials, group work.

## ASSESSMENT PLAN

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Assessment Event	Weighting %	Learning Outcomes
Myimaths Online Homework	30.00	1,2,3,4,5,6
Test 1	10.00	1,2
Test 2	15.00	3,4
Test 3	15.00	4,5
Final Exam	30.00	4,5,6

### 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 this course, students must attempt all summative assessments and achieve a minimum overall grade of C-.

## LEARNING RESOURCES

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A recommended reading list will be provided.

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

**Principal Programme:** AK1311, Certificate in Science and Technology

**Related Programme/s:** AK1018  
AK1311  
ICE1

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