



Education and Social Work

EDCURRIC 350 : Teaching Mathematics Investigations (15 POINTS)

Course Prescription

An examination of investigative approaches to the teaching and learning of mathematics within the context of problem solving.

Course Overview

This course examines investigative approaches to teaching and learning mathematics within the context of the New Zealand Curriculum. It explores contemporary and radical views of investigative teaching and learning approaches in mathematics. There will be a focus on extending and enriching student's personal content knowledge, mathematical understandings and skills. This course aims to develop the pedagogical content knowledge of students, enhance their reflectivity and broaden their mathematical horizons.

Course Requirements

Prerequisite: 225 points passed in the BEd(Tchg) Primary Specialisation To complete this course students must enrol in EDCURRIC 350 A and B, or EDCURRIC 350

Capabilities Developed in this Course

Capability 1: Disciplinary Knowledge and Practice

Capability 2: Critical Thinking

Graduate Profile: [Graduate Diploma in Education](#)

Learning Outcomes

By the end of this course, students will be able to:

1. Develop algebraic thinking (Capability 1.1, 1.2, 2.1 and 2.2)
2. Demonstrate an understanding of The investigative way of teaching Mathematics and Statistics.
(Capability 1.1, 1.2, 2.1 and 2.2)

Assessments

Assessment Type	Percentage	Classification
Coursework	30%	Group & Individual Coursework
Coursework	30%	Individual Coursework
Coursework	40%	Individual Coursework
3 types	100%	

Assessment Type	Learning Outcome Addressed	
	1	2
Coursework	✓	✓
Coursework	✓	✓
Coursework	✓	✓

To pass this course students must submit all assessment tasks and get an overall course mark of at least 50%.

Workload Expectations

For this 15-point course you can expect 6 days of workshops, totaling 36 hours, 2 hours of reading each of the 6 days, 2 hours of completing investigations on each day and approximately 15 hours per week over the next 6 weeks. This will include, but is not limited to: preparing, completing and writing assignments; synthesizing readings; carrying out own research for appropriate own-topic; developing your own mathematical knowledge.

Delivery Mode

Campus Experience

Attendance is required at scheduled activities including tutorials to complete components of the course. Other learning activities including seminars will not be available as recordings.

The course will not include live online events.

Attendance on campus is required for the Thursday Group Assignment.

The activities for the course are scheduled as block delivery.

Student Feedback

At the end of every semester students will be invited to give feedback on the course and teaching through a tool called SET or Qualtrics. The lecturers and course co-ordinators will consider all feedback and respond with summaries and actions.

Your feedback helps teachers to improve the course and its delivery for future students.

Class Representatives in each class can take feedback to the department and faculty staff-student consultative committees.

Digital Resources

Course materials are made available in a learning and collaboration tool called Canvas which also includes reading lists and lecture recordings (where available).

Please remember that the recording of any class on a personal device requires the permission of the instructor.

Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting their learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the internet. A student's assessed work may be reviewed against online source material using computerised detection mechanisms.

Inclusive Learning

All students are asked to discuss any impairment related requirements privately, face to face and/or in written form with the course coordinator, lecturer or tutor.

Student Disability Services also provides support for students with a wide range of impairments, both visible and invisible, to succeed and excel at the University. For more information and contact details, please visit the [Student Disability Services' website](http://disability.auckland.ac.nz) <http://disability.auckland.ac.nz>

Special Circumstances

If your ability to complete assessed coursework is affected by illness or other personal circumstances outside of your control, contact a member of teaching staff as soon as possible before the assessment is due.

If your personal circumstances significantly affect your performance, or preparation, for an exam or eligible written test, refer to the University's [aegrotat or compassionate consideration page](https://www.auckland.ac.nz/en/students/academic-information/exams-and-final-results/during-exams/aegrotat-and-compassionate-consideration.html) <https://www.auckland.ac.nz/en/students/academic-information/exams-and-final-results/during-exams/aegrotat-and-compassionate-consideration.html>.

This should be done as soon as possible and no later than seven days after the affected test or exam date.

Learning Continuity

In the event of an unexpected disruption we undertake to maintain the continuity and standard of teaching and learning in all your courses throughout the year. If there are unexpected disruptions the University has contingency plans to ensure that access to your course continues and your assessment is fair, and not compromised. Some adjustments may need to be made in emergencies. You will be kept fully informed by your course co-ordinator, and if disruption occurs you should refer to the University Website for information about how to proceed.

Student Charter and Responsibilities

The Student Charter assumes and acknowledges that students are active participants in the learning process and that they have responsibilities to the institution and the international community of scholars. The University expects that students will act at all times in a way that demonstrates respect for the rights of other students and staff so that the learning environment is both safe and productive. For further information visit [Student Charter](https://www.auckland.ac.nz/en/students/forms-policies-and-guidelines/student-policies-and-guidelines/student-charter.html) <https://www.auckland.ac.nz/en/students/forms-policies-and-guidelines/student-policies-and-guidelines/student-charter.html>.

Disclaimer

Elements of this outline may be subject to change. The latest information about the course will be available for enrolled students in Canvas.

In this course you may be asked to submit your coursework assessments digitally. The University reserves the right to conduct scheduled tests and examinations for this course online or through the use of computers or other electronic devices. Where tests or examinations are conducted online remote invigilation arrangements may be used. The final decision on the completion mode for a test or examination, and remote invigilation arrangements where applicable, will be advised to students at least 10 days prior to the scheduled date of the assessment, or in the case of an examination when the examination timetable is published.