

LIDLAW COLLEGE
Te Wananga Amorangi

BACHELOR OF TEACHING (PRIMARY) & WORLDVIEW STUDIES

852.515 Mathematics and Statistics 1
Course Outline

NQF Level: 5
Credit Value: 15

DELIVERY MODE

Auckland

COURSE DESCRIPTION

Mathematics is a unique description of God's creation through which His attributes, His Word and His acts are clearly seen (Nickel, 1990). This course investigates effective pedagogy to help students redeem a sense of interest and excitement in the patterns of number and shape so they can teach with enthusiasm and genuine interest. Students will develop a critical understanding of the knowledge, skills and attitudes necessary for the effective teaching and learning of mathematics in New Zealand pre-secondary schools. There will be a specific focus on numeracy initiatives through thorough study of relevant, current curriculum material.

Nickel, J. (1990). *Mathematics: Is God silent?* Vallecito, CA: Ross House Books.

LEARNING OUTCOMES

Students will be able to:

- a. demonstrate a growing understanding of Christian worldview perspectives in Mathematics and Statistics (GTS 6a);
- b. demonstrate an advanced knowledge of curriculum content (GTS 1a, 1c, 2d) ;
- c. identify effective pedagogy for mathematics teaching GTS 1b, 2a, 2c);
- d. demonstrate sound understanding of numeracy issues in mathematics education(GTS 2a, 2b);
- e. develop familiarity with New Zealand mathematics curriculum documents (GTS 1c).