

DETAILS FOR PERSPECTIVES ON TEACHING MATHEMATICS

Quick Info

- Currently offered by Alphacrucis/National Institute: Yes
- Course code: EDU551
- Credit points: 10
- Subject coordinator: Dr Lindsay Graieg, EdD
- Lecturers

Prerequisites

The following courses are prerequisites:

- EDU400 Biblical Foundations of Education or 40 credit points

Awards offering *Perspectives on Teaching Mathematics*

This unit is offered as a part of the following awards:

- Master of Education

Unit Content

Outcomes

1. Discuss worldview issues concerning mathematics and the possible implications on curriculum design and teaching practice within a Christian school context;
2. Describe different views of knowledge and the implications of how they affect teaching and curriculum development in schools, particularly Christian schools and the study of mathematics;
3. Compose a thorough literature review to reflect an understanding of important issues of educational practice in mathematics and the scholarly literature related to developing a biblical perspective on mathematics education;
4. Recommend a policy and rationale for teaching mathematics in a Christian school considering the basic principles of effective teaching practice and curriculum design;
5. Plan a unit of work that flows from a clearly biblical perspective to cover a complete topic within the mathematics course.

Subject Content

1. Introduction to teaching mathematics in the Christian school
2. Knowledge, wisdom, and learning
3. Perceived neutrality of mathematics
4. Mathematics is just mathematics – or is it?
5. The student's viewpoint
6. Planning units of work in mathematics (part 1)
7. Planning units of work in mathematics (part 2)
8. Reflection on teaching in mathematics

This course may be offered in the following formats

- Distance/ Global Online
- Face-to-Face
- Intensive (5 days of classes/7 hours per day followed by 85 hours reading, writing and assignments)
- Extensive (5 days spread over the semester)

Subject available each semester with the exception of the summer semester. If you wish to enquire about this subject please contact admin@nice.edu.au

Assessment Methods

- Forum Posts (10%)
- Literature Review, Rationale and Policy Document (40%)
- Unit of Work (50%)

Prescribed Texts

Bradley, J., & Howell, R. (2011). *Mathematics through the eyes of faith*. New York: Harper Collins. Chapters 1 and 2.

Loop, K.A. (2011) *Beyond Numbers – a practical guide to teaching Math Biblically* Christian Perspective: Fairfax VA.