

# DETAILS FOR PERSPECTIVES ON TEACHING MATHEMATICS

## EDU551

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### Quick Info

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

Dr Charlie Justins, EdD

Peter Muddle MEd

### Prerequisites

The following courses are prerequisites:

- EDU400/400a Biblical Foundations of Education (10 credit points)
- EDU501/501a Worldviews and Christian Education (10 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

Or by arrangement:

- 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 in as per the semester study schedule. If you wish to enquire about this subject please contact [admin@nice.edu.au](mailto: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.