EDUC40009 Learning Area: Mathematics 4

Credit Points:	12.50
Level:	4 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: March, Parkville - Taught on campus. Parkville, on-campus.
Time Commitment:	Contact Hours: A total of 36 hours Total Time Commitment: Not available
Prerequisites:	B.Ed: 485-202 Learning Area: Mathematics 2 or 485-204 Learning Area: Mathematics 2 (Adv) Study Abroad: Equivalent to 485-233 Learning Area (TP) Mathematics 2.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	Attendance at all classes (tutorial/seminars/practical classes/lectures/labs) is obligatory. Failure to attend 80% of classes will normally result in failure in the subject.
Coordinator:	Dr Anthony Jones
Contact:	Education Student Centre
Subject Overview:	This subject deals with primary school mathematics programs and current issues in mathematics education. The focus is on Years 4-6. Students will learn to critically evaluate mathematics programs, materials and teaching methods. Alternative approaches to the teaching of mathematics across a primary school, such as the integrated curriculum, thematic instruction, interdisciplinary curriculum and other current curricular models will be discussed and compared. A range of methods of assessment and reporting will be examined. Contemporary national and international curriculum documents will provide a focus for the discussion of primary mathematics and associated issues. Students will develop a mathematics program for use in upper primary mathematics classrooms.
Objectives:	On completion of this subject students should be able to:
	 # Critically evaluate mathematics programs, materials and teaching methods; # Demonstrate understanding of alternative approaches to the teaching of mathematics across a primary school; # Compare, identify and apply current curricular models; # Demonstrate understanding of a range of methods of assessment and reporting; # Discuss primary mathematics and associated issues in the light of contemporary national and international curriculum documents; # Demonstrate an ability to develop a mathematics program for use in primary school classrooms.
Assessment:	There are three assessment tasks due throughout the semester:An issues paper dealing with teaching and learning in upper primary mathematics classrooms Yrs 4 - 6 (1,000 words 15 per cent)A unit planning assignment Yrs 4 - 6 (1,000 words 35 per cent)One 2 hour examination in the official examination period (50 per cent)
Prescribed Texts:	Booker, G., Bond, D., Sparrow, L., & Swan, P. (2009) Teaching Primary Mathematics (4th ed.). French's Forrest: Pearson
Breadth Options:	This subject is not available as a breadth subject.

Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion of this subject students will have the knowledge and skills and understanding to enable them to:
	 # Be skilled communicators who can effectively articulate and justify their practices as knowledgeable agents of change; # Be flexible and able to adapt to change through knowing how to learn;
	 # Understand the significance of developing their practice on the basis of research evidence; # Work in teams with skills in co-operation, communication and negotiation;
	 # Be independent of mind, responsible, resilient and self-regulating; # Have a conscious personal and social values base.
Related Course(s):	Bachelor of Education (Primary)