

## EDUC90773 Primary Mathematics Education 2

<b>Credit Points:</b>	6.25								
<b>Level:</b>	9 (Graduate/Postgraduate)								
<b>Dates &amp; Locations:</b>	This subject is not offered in 2013.								
<b>Time Commitment:</b>	Contact Hours: 18 hours Total Time Commitment: 62.5 hours total commitment. Attendance at all classes (lectures, workshops) is obligatory. Failure to attend 80% of classes will normally result in failure in the subject.								
<b>Prerequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>EDUC90778 Primary Mathematics Education 1</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	EDUC90778 Primary Mathematics Education 1	Not offered 2013	12.50
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<b>Corequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>EDUC90489 Professional Practice and Seminar Prim 3</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	EDUC90489 Professional Practice and Seminar Prim 3	Semester 1	12.50
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<b>Recommended Background Knowledge:</b>	None								
<b>Non Allowed Subjects:</b>	None								
<b>Core Participation Requirements:</b>	<p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison website: <a href="http://www.services.unimelb.edu.au/disability">http://www.services.unimelb.edu.au/disability</a>.</p>								
<b>Contact:</b>	Education Student Centre 234 Queensberry Street Call: 13 MELB (13 6352)								
<b>Subject Overview:</b>	<p>Teacher candidates will develop pedagogical content knowledge for the effective teaching and learning of the following mathematics strands from Prep to Year 6:</p> <ul style="list-style-type: none"> <li># Content Strand: Measurement and Geometry</li> <li># Proficiency Strands: Understanding, Fluency, Problem Solving, Reasoning.</li> </ul> <p>Within this content strand, Candidates will analyse the development of key concepts in primary mathematics and identify critical progression points for children's learning. They will consider typical conceptions and misconceptions held by children, their likely causes, diagnostic tools to diagnose them and teaching strategies for changing them.</p> <p>They will review and critique resources for primary mathematics and examine tasks designed to achieve specific learning outcomes in these strands.</p> <p>Candidates will consider research evidence related to selected key issues of teaching Measurement and Geometry. They will examine cognitive and affective characteristics of mathematics classrooms that encourage deep learning in these content areas and in the proficiency strands.</p>								
<b>Objectives:</b>	<p>On completion of this subject, with respect to the strands above, teacher candidates will be able to:</p> <ul style="list-style-type: none"> <li># Demonstrate mastery of the topics and their everyday applications which are relevant to primary teaching or are necessary to be personally numerate;</li> <li># Demonstrate an understanding of how children construct mathematical knowledge;</li> <li># Demonstrate knowledge of a range of classroom teaching techniques;</li> </ul>								

	<ul style="list-style-type: none"> <li># Demonstrate knowledge of how children think and learn;</li> <li># Demonstrate an ability to develop teaching activities and relate them to learning outcomes.</li> </ul>
<b>Assessment:</b>	There are two assessment tasks, both assessment tasks must be passed: an assignment (1000 words) due mid semester, 50% a 2 hour examination at end of semester, 50%
<b>Prescribed Texts:</b>	Jorgensen, R. & Dole, S. (2011) Teaching Mathematics in Primary Schools. (2nd ed) Sydney: Allen and Unwin. De Klerk, J. (2007). Illustrated maths dictionary (4th Edition). Melbourne: Pearson. Collection of readings
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>On completion of this subject, teacher candidates will have the knowledge, skills and understanding to enable them to:</p> <ul style="list-style-type: none"> <li># Be skilled communicators who can effectively articulate and justify their teaching practices;</li> <li># Be flexible and able to adapt to change through knowing how to learn;</li> <li># Understand the significance of developing their practice on the basis of research evidence;</li> <li># Work in teams with skills in cooperation, communication and negotiation;</li> <li># Be responsible, resilient, self-regulating and independent of mind;</li> <li># Have a conscious personal and social values base.</li> </ul>
<b>Links to further information:</b>	<a href="http://education.unimelb.edu.au/study_with_us/become_a_teacher/primary">http://education.unimelb.edu.au/study_with_us/become_a_teacher/primary</a>
<b>Related Course(s):</b>	Master of Teaching (Primary)