

## EDUC90371 Primary Mathematics Education 2

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2013.
<b>Time Commitment:</b>	Contact Hours: 36 hours Total Time Commitment: 125 hours total commitment.
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	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>
<b>Contact:</b>	Education Student Centre 234 Queensberry Street Phone: +61 3 8344 8285
<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, Statistics and Probability, Pre-Algebra.</li> <li># Proficiency Strands: Understanding, Fluency, Problem Solving, Reasoning.</li> </ul> <p>Teacher candidates will review and critique resources for primary mathematics and design tasks to achieve specific learning outcomes in these strands. They will analyse tasks and lessons to identify teaching that promotes school students' mathematical thinking and builds problem solving capacity and higher order thinking skills.</p> <p>Teacher candidates will consider research evidence related to selected key issues of teaching mathematics. They will examine cognitive and affective characteristics of mathematics classrooms that encourage deep learning.</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> <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: a 2 hour examination, end of semester, 60% an assignment (1600 words) due mid semester, 40% There are two hurdle requirements: Satisfactorily completion of weekly tasks A mastery level pass of a Basic Skills Test of Mathematics (including Number), set at Year 7 level. All items of assessment must be satisfactorily completed.
<b>Prescribed Texts:</b>	Zevenbergen, R., Dole, S., & Wright, R.J., (2004). Teaching mathematics in primary schools. Crows Nest, NSW: Allen & 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>