UniStep 2010
Mathematics and Statistics Bridging Courses

Preparing for Mathematics and Statistics at UWS

UWS students can refresh and improve their high school mathematics skills and knowledge through a variety of free bridging courses which run from Monday 1 February to Friday 26 February 2010.

UniStep bridging courses are of particular help to students who have not studied mathematics recently or who did HSC General Mathematics (formerly MIS or MIP) or who have a lower band pass of below 4 in HSC Mathematics (formerly 2 Unit).

Day & Evening Courses

Daytime bridging courses running at Campbelltown campus are: **Algebra 1 and Statistics.**

Daytime bridging courses running at Penrith (Kingswood) campus are: **Algebra 1, Algebra 2, Trigonometry, Calculus** and **Maths bridging for engineering students**.

Evening bridging courses running at Parramatta campus are: **Algebra 1 and Statistics.**

See Table 2 on the following page for the times and dates of each course as well as the content of each course.

Which bridging courses do you need?

Certain units (subjects) at university assume you have studied a certain level of mathematics. You may need to do some bridging before starting such a unit.

Step 1 - Are you doing a unit (subject) which has *Assumed Knowledge* in mathematics or has a *Basic Maths Skills Test*?

» Go to the UWS course search page, type in your course name, check if there is a mathematics, statistics, science or economics unit in your first year, click on the unit and then look for the heading '*Assumed Knowledge*' or '*Special Requirements*'

Course search page: *http://handbook.uws. edu.au/hbook/COURSE_SEARCH.ASPX*

Step 2 – Determine which bridging courses to do to gain the assumed mathematical knowledge of a unit (subject) or to prepare for the *Basic Maths Skills Test*

» Use Table 1 to match your first year unit (subject) with its recommended bridging courses.

** Algebra 1 should also be taken if student only has HSC General Mathematics or HSC Mathematics below band 4.

Note: Nursing students will be advised about the mid-year Nursing Numeracy Bridging Course once autumn session begins and so do not need to attend any other mathematics bridging course.

UniStep Information Sessions and Further Advice

If you are still not sure what bridging courses to do, come to a UniStep Information Session on **28 January 2010** either at Penrith (Kingswood) campus at 10:00 am or at Parramatta campus at 6:00 pm. Alternatively, make your enquiries by contacting the Student Learning Unit on 4736 0850 or email *unistep@uws.edu.au*

UniStep Bridging Course Registration

Registrations for all UniStep mathematics and statistics bridging courses open on **22 January 2010**. Register for your bridging courses online at: *https://owrs.uws.edu.au/PrepPrograms.asp*

Table 1: Recommended Bridging Courses for First Year Units (Subjects)

Unit (Subject)	Bridging Courses
» All Statistics units (eg Statistics for Business, Biometry)	Algebra 1 & Statistics
» Mathematics for Engineers 1	Maths bridging for engineering **
» Fundamentals of Mathematics » Mathematics for Engineers Preliminary	Algebra 1 & Algebra 2 & Trigonometry
» Mathematics 1A	Algebra 2 & Trigonometry & Calculus **
» Discrete Mathematics	Algebra 1 & Algebra 2
» Introduction to Economic Methods » Quantitative Techniques	Algebra 1 & Algebra 2 (Penrith campus) or Algebra 1 & Statistics (Parramatta or Campbelltown campuses)
» Design Science	Algebra 2 & Trigonometry **
» Physics 1	Algebra 2 & Trigonometry **

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Autumn Session 2010
Mathematics and Statistics Workshops

Table 2: Bridging Course Content and Schedule

Course	Campbelltown (Day)	Penrith (Kingswood) (Day)	Parramatta (Evening)
Algebra 1 » Arithmetic, basic algebra, indices, surds, solving equations, factorisation, co-ordinate geometry	3 Feb – 5 Feb 9.15 am – 3:00 pm	1 Feb – 3 Feb 9.15 am – 3:00 pm	17 Feb – 19 Feb & 22 Feb 5:00 pm – 9:00 pm
Statistics » Graphing data, calculating means & standard deviations, data interpretation, introduction to distributions & sampling, use of scientific calculators in statistics mode	10 Feb – 12 Feb 9.15 am – 3:00 pm		23 Feb – 26 Feb 5:00 pm – 9:00 pm
Algebra 2 » Solving harder equations including simultaneous equations and quadratic equations, using formulas » Introduction to logarithmic and exponential functions		4 Feb & 5 Feb 9:00 am – 1:00 pm 8 Feb & 9 Feb 9:00 am – 4:15 pm	
Trigonometry » Pythagoras, sine, cosine & tangent ratios, sine & cosine rules » Radians, graphing trig functions, solving trig equations		3 Feb – 5 Feb 1:00 pm – 4:15 pm	
Calculus » Functions, differentiation, integration, applications of calculus		10 Feb – 12 Feb 9:00 am – 4:15 pm	
Maths bridging for engineering » This course covers the Algebra 2, Trigonometry & Calculus courses, so do not register for them separately » Engineering students not confident in basic algebra and co-ordinate geometry should firstly do Algebra 1		3 Feb 1:00 pm – 4:15 pm 4 Feb & 5 Feb 9:00 am – 4:15 pm 8 Feb – 12 Feb 9:00 am – 4:15 pm	

Autumn Semester 2010 – Mathematics and Statistics Support Workshops

The Student Learning Unit runs mathematics and statistics support workshops in autumn semester to help students succeed in the mathematics or statistics unit they are studying at UWS.

Support workshops usually start running from about the middle of March. All details about what support workshops are available, including registering a place online, can be found at: *https://owrs.uws.edu.au/LSUWorkshops.asp*

You can also contact us about workshops on 4736 0850 or email *slu@uws.edu.au*