THE UNIVERSITY OF SYDNEY

Bridging Courses 2019

Biology, Chemistry, Mathematics, Physics

Many courses in science have assumed knowledge, which are subjects we expect you to have studied before you begin your course. If you do not have the assumed knowledge you won't be excluded from the course but you might find it difficult to manage the work, as your lecturer will assume you have this knowledge.

We recommend you take a bridging course if you are about to start studying a course and you do not have the assumed knowledge you need for it. It is also an excellent refresher if you are returning to study.

Our bridging courses run during February, just before the beginning of semester one.

We offer the following bridging courses

Course	Dates	Days	Time	Cost (inc GST)
Biology	11-15 February	Weekdays	9am-4.30pm	$360
Chemistry	6-14 February	Weekdays	9am-4pm	$340
Maths Day Extension 1	4-19 February	Weekdays	10am-12pm	$435
Maths Evening Extension 1	4-21 February	Mon-Thu	6pm-8pm	$435
Physics	18-22 February	Weekdays	9.30am-4.30pm	$360

Registrations Open 11 January 2019

Visit the bridging course website for more information and to register:
sydney.edu.au/science/fstudent/undergrad/entry/bridging

Before you register, you should check which bridging course is right for you. There is a $25 administration fee for changing your mind.

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Biology

The Biology Bridging Course is strongly recommended if you have not completed HSC Biology (or equivalent), or found biology difficult at school. The course places emphasis on building conceptual understanding and developing skill sets to prepare students for first-year biology units. You will work in teams to learn laboratory techniques, communicate scientific data, and design your own experiments to explore the environment on campus. We will cover evolution, diversity of organisms, cell biology, molecular biology and genetics.

Course Delivery: A mixture of lectures, investigative laboratories, and interactive workshops. At the end of the course, we have a relaxed game show-style event where your group can win great prizes.

For laboratory sessions, you will need:

- Lab coat
- Closed shoes (covers toe, heel, and top of foot)

sydney.edu.au/science/biology/studying_biology/bridging-course

Mathematics Extension 1

If you intend majoring in mathematics, computer science or physics; or an engineering course you require a good understanding of HSC Mathematics Extension 1. The Extension 1 course is for you if you wish to enrol in a course which has an assumed knowledge of Extension 1 Mathematics (3-Unit). The main content will be an introduction to differential calculus together with revision of the necessary algebra and coordinate geometry. Knowledge of Year 10 Mathematics will be assumed.

Course Delivery: Courses are offered during the day and in the evening. The classes are small so that you receive the maximum amount of individual attention, and consist of 12 two-hour classes. You are expected to spend at least two hours per day on private study and homework during the bridging course, however there are no examinations.

sydney.edu.au/science/maths/u/BC

Note on prerequisites: for more information about the 2019 onwards mathematics prerequisites:

sydney.edu.au/study/maths

For mathematics support for 2-Unit mathematics, please contact the Mathematics Learning Centre:

http://sydney.edu.au/stuserv/maths_learning_centre

Chemistry

Preliminary Chemistry (Standard)

This course is designed for students who intend to take first year chemistry unit without having completed HSC Chemistry. Those who have are also welcome to come along and refresh their memory.

Course Delivery: You will attend two sessions a day, 9am-12pm and 1pm-4pm which will consist of a one hour lecture followed by a two hour small-group tutorial with about ten students per tutor. In all, the course covers 13 topics. The complete notes can be viewed on our web site:

https://sydney.edu.au/science/study/bridging-courses.html

Preliminary Chemistry (External)

The same course is also available as an external course which can be undertaken at any time during the year. Enrolling in the external course is done through the School of Chemistry. For more information, email:

chemistry.bctutor@sydney.edu.au

Physics

The Physics Bridging Course is recommended if you are about to take physics for the first time, need to refresh your knowledge after a break from study, or have tried physics and found it difficult.

The purpose of the course is to provide a good general introduction to the subject so that students can better appreciate the lecture and laboratory material from the beginning of the year as well as an introduction of skills and content.

Topics include: measurement and units, motion along a straight line, vectors and motion in 2D and 3D, force and motion, work and energy, conservation of energy, systems of particles, collisions, and oscillations.

Course Delivery: The course comprises lectures, tutorials and experimentation. A typical day consists of a 1.5 hour lecture followed by a 2.5 hour tutorial with selected experiments in both the morning and the afternoon. There is a one hour lunch break during the middle of the day. Lectures are interactive with participation in large classroom activities. The tutorials are group based where you do practice problems and explore demonstrations more closely.

sydney.edu.au/science/physics/future/bridging

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