

Foundation Science

Basic Science for New Students - 2012

This bridging course is ideal for anyone requiring some understanding of Chemistry or Physics, but who has not recently studied in those areas. It is a 5 session refresher course revisiting the basics.

Students about to enter the first semester of an undergraduate course that assumes a basic knowledge of Chemistry or Physics will find Foundation Science particularly useful.

It will be of particular value to students in the biological, clinical and health sciences who have not taken upper secondary Chemistry or Physics.

It will also be of value to mature age students or school leavers who wish to brush up on the basics prior to starting their course.

This bridging course is offered by ECU's School of Natural Sciences on the University's Joondalup campus.

The course is comprised of:

- 5 x 60-90 minute lectures covering a number of relevant topics
- A one hour tutorial for each lecture.

Friday 20th July 2012: 5pm–8pm

Session 1: *Atomic Structure; Ions and Isotopes; Elements, Compounds and Mixtures; Ionic and Covalent Bonding*

Saturday 21st July 2012: 9am–12pm

Session 2: *Valency and Chemical Formulae; Naming Chemical Compounds; Chemical Reactions; Balancing Equations*

Sunday 22nd July 2012: 9am–12pm

Session 3: *Properties of Water; Aqueous Solutions; Electrolytes: Acids, Bases and Salts; The pH Scale*

Friday 27th July 2012: 5pm–8pm

Session 4: *SI Quantities and Units; Exponential Notation; Accuracy and Precision; Moles and Molarity*

Saturday 28th July 2012: 9am–12pm

Session 5: *Simple Algebra; Mass, Weight and Force; Pressure, Work and Energy; Heat and Temperature*

As a mature-age student I have utilised much of the knowledge acquired during the Foundation Course. The layout of information and excellent presentation by staff assisted greatly. Fantastic value for money! - **Rachel Capurso**

Lectures were presented in a very structured and concise way. The assumption of no knowledge relaxed many students, myself included. Course notes should provide useful reference material. - **Neil Waterhouse**

I found the lectures interesting, well structured and at a perfect pace to follow. So far the knowledge I gained has been of significant benefit. - **Rylan Shearn**

The best aspect was the in-depth explanations of each topic. The topics were well chosen and the structure of the course (lectures and tutorials) served as a good introduction to university life. - **Jessica Scotland**

