

# Foundation Science

## February 2010

School of Natural Sciences

### Basic Science for New Students

Dear Student,

Congratulations on gaining a place at Edith Cowan University. As a student in a science, nursing or other science-based course, you may find it helpful to revise some of the basics in chemistry and physics, especially if you have not studied those subjects recently. Whilst an advanced knowledge of chemistry and physics is not required in your course, some understanding in those areas will be needed for the biological and physical processes you will be studying.

The School of Natural Sciences offers a five-session refresher course in basic science to help prepare new students for the first semester of their course. *Foundation Science* is taught prior to the start of semester by lecturers who are familiar with the problems often encountered by new students and with effective ways of overcoming them.

*Foundation Science* is particularly recommended for students with little or no formal science background and for school leavers who wish to brush up on the basics.

**Please note**, however, students who have completed Year 11 or 12 chemistry or physics, or who otherwise have a secure knowledge of secondary physical science, are unlikely to find the course useful.

Each of the five sessions in *Foundation Science* consists of a large-group lecture of 60-90 minutes duration, followed by a small-group tutorial of one-hour. These sessions will introduce you to the types of teaching you will experience at university and there will be opportunities to meet fellow students and to establish contacts with students and staff prior to the start of semester.

*Foundation Science* is held on the **Joondalup campus** at Edith Cowan University.

What past students have said about **Foundation Science** .....

"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**

# PROGRAMME OF STUDY

Foundation Science for New Students - February 2010

## Friday, 12 Feb 5 pm to 8 pm

- Atomic Structure
- Ions and Isotopes
- Elements, Compounds and Mixtures
- Ionic and Covalent Bonding

## Saturday, 13 Feb 9 am to 12 noon

- Valency and Chemical Formulae
- Naming Chemical Compounds
- Chemical Reactions
- Balancing Equations

## Sunday, 14 Feb 9 am to 12 noon

- Properties of Water
- Aqueous Solutions
- Electrolytes: Acids, Bases and Salts
- The pH Scale

## Friday, 19 Feb 5 pm to 8 pm

- SI Quantities and Units
- Exponential Notation
- Accuracy and Precision
- Moles and Molarity

## Saturday, 20 Feb 9 am to 12 noon

- Simple Algebra
- Mass, Weight and Force
- Pressure, Work and Energy
- Heat and Temperature



**Course Fee:** \$235.00 inclusive of GST. This is fully refundable for cancellations made on or before Monday 8 February 2010. If booking after Monday 8 February 2010, please telephone (08) 6304 5460 to check availability of places.

**Enquiries:** Dr Alan Needham phone: (08) 6304 5460, Email: [a.needham@ecu.edu.au](mailto:a.needham@ecu.edu.au)

**To Enrol:** Enrol online by visiting <http://payonline.ecu.edu.au> and select 'SNS - Foundation Science 2010' from the transaction list. Follow the prompts to register and pay online.

Alternatively, complete and forward the registration form below by Sunday 7 February 2010. Confirmation of your enrolment and further details of the course will then be mailed to you.

## Foundation Science 2010 Registration Form and Tax Invoice FSJO

ABN 54 361 485 361  
(ECU Ref: Onestop 121)

Please enrol me in the February 2010 Foundation Science course.

SURNAME \_\_\_\_\_ GIVEN NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

\_\_\_\_\_ POST CODE \_\_\_\_\_

CONTACT \_\_\_\_\_

Phone (Home) \_\_\_\_\_

Phone (Work/Mobile) \_\_\_\_\_

Email \_\_\_\_\_

Enclosed is a cheque/money order for \$235.00 *or* please debit my credit card \$235.00 (GST inclusive)

Card Type    Visa        Bankcard        Mastercard

Card Number: \_\_\_\_\_

Expiry Date: \_\_\_ / \_\_\_ / \_\_\_

Name of Cardholder: \_\_\_\_\_

Signature of Cardholder: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_

All cheque/money order payments should be made payable to Edith Cowan University. **Complete and forward this form with remittance** to: Lisa McCormack, Faculty of Computing, Health & Science (Building 21. Room 523) Edith Cowan University, 270 Joondalup Drive, Joondalup WA 6027 or Fax: (08) 6304 5577.