



Course

Chemistry 1A: Atoms, Molecules and Energy

CHEM1011 | 6 Units of Credit

Overview

This course builds on an elementary knowledge of chemistry (equivalent to one year of high school chemistry, such as Year 11 chemistry, or CHEM1001 at UNSW) to explore the quantum mechanical structure of atoms leading to an understanding of the periodic trends in the properties of the elements. This knowledge is applied to understanding chemical bonding and intermolecular forces which together are responsible for determining the properties of materials. General principles of chemical equilibrium are developed and applied to chemical reactions involving acids and bases. The applications of the laws of Thermodynamics to chemical processes are described and ultimately linked to chemical equilibrium. The course includes an overview of chemical reactions involving electron transfer, including their applications in biology, corrosion and energy storage for portable electronic devices.

Notes:

1. Assumed knowledge equivalent to year 11 chemistry or CHEM1001.
2. Students who complete CHEM1011 are unable to subsequently enrol in CHEM1001. However, students who have completed CHEM1001 will be permitted to proceed to enrol in CHEM1011.

Faculty

Faculty of Science

School

School of Chemistry

Study Level

Undergraduate

Offering Terms

Term 1, Term 2, Term 3

Campus

Kensington

Indicative contact hours

8

Timetable

[Visit timetable website for details](#)

Equivalent Courses

DPST1031 6 UOC

Chemistry A: Atoms, Molecules, and Energy

CHEM1031 6 UOC

Higher Chemistry 1A: Atoms, Molecules and Energy

CHEM1831 6 UOC

Chemistry for Exercise Physiology

CHEM1051 6 UOC

Higher Chemistry 1A (Medicinal): Atoms, Molecules and Energy

Exclusion Courses

DPST1031 | 6 UOC

Chemistry A: Atoms, Molecules, and Energy

CHEM1051 | 6 UOC

Higher Chemistry 1A (Medicinal): Atoms, Molecules and Energy

CHEM1031 | 6 UOC

Higher Chemistry 1A: Atoms, Molecules and Energy

CHEM1811 | 6 UOC

Engineering Chemistry 1A

Course Outline

To access course outline, please visit:

[CHEM1011 Course Outline](#)

Fees

Commonwealth Supported Students \$1191

Domestic Students \$5970

International Students \$5970

DISCLAIMER

Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the [fee website](#).

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.

Additional Information

This course is offered as General Education.

Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

[Pre-2019 Handbook Editions](#)

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Authorised by Deputy Vice-Chancellor (Academic)

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