

# CHEM 1006 ESSENTIAL CHEMISTRY 2 (WSTC)

**Credit Points** 10

**Legacy Code** 700122

**Coordinator** Phillip Newman ([https://directory.westernsydney.edu.au/search/name/Phillip Newman/](https://directory.westernsydney.edu.au/search/name/Phillip%20Newman/))

**Description** This subject introduces an investigation of the reactivity of covalent molecules, in particular, of carbon-based compounds. Focussing on introductory chemical dynamics and thermodynamics, students will develop an in-depth understanding of the structure, nomenclature and reactivity of the principal organic functional groups, extending their basic principles of chemistry. They will also understand how molecules are synthesised and the ways they react being important in the function and role of chemistry in biological systems in our domestic and industrial worlds.

**School** Science

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 1 subject

**Equivalent Subjects** CHEM 1002 - Chemistry 2 CHEM 1010 - Medicinal Chemistry LGYB 0462 - Chemistry 2 (UWSC) CHEM 1005 - Essentials of Chemistry 2

## Assumed Knowledge

An understanding and competence with basic chemical principles including SI units, chemical symbols, formulas and equations, nomenclature, stoichiometry, the mole concept, bonding, molecular shape and polarity, states and properties of matter, thermodynamics, equilibria, acids and bases, pH and electrochemistry. General Mathematics Bands 5 and 6 or Mathematics Band 4 or equivalent.

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

| Type                       | Length                                                   | Percent | Threshold | Individual/<br>Group Task |
|----------------------------|----------------------------------------------------------|---------|-----------|---------------------------|
| Log/<br>workbook           | 3 hours x 5<br>weeks                                     | 20      | Y         | Individual                |
| Quiz                       | 6 short (10<br>minutes)<br>online<br>practice<br>quizzes | 25      | N         | Individual                |
| Essay                      | 1,000 words                                              | 10      | N         | Individual                |
| Short Answer               | 1 hour                                                   | 10      | N         | Individual                |
| End-of-<br>session<br>Exam | 2 hours and<br>20 minutes                                | 35      | N         | Individual                |