

# CHEMISTRY

## CHE 201

Chemistry is concerned with understanding the behaviours of different substances and their change into new substances. Chemistry seeks to explain observations in experiments with particle and molecular models and energy transformations of the interacting substances.

The course extends student understanding of atomic structure and bonding, and aqueous solutions, reaction types, energy transformations, and organic and quantitative chemistry. The course is essential for any careers involving science such as medicine, nursing, geology, forensics, nanotechnology, veterinary and genetics.

### Assessment

Assessment is based on internal and external Achievement Standards and will be selected from the following list:

### INTERNAL ASSESSMENT

Achievement/ Unit Standard	Number	Title	Credits
AS 2.1	NYA	Carry out qualitative analysis	3
AS 2.2	NYA	Carry out an acid-base volumetric analysis	3
AS 2.3	NYA	Solve simple quantitative chemical problems	2
AS 2.7	NYA	Demonstrate understanding of oxidation-reduction reactions	3

NYA: not yet assigned

### EXTERNAL ASSESSMENT

Achievement/ Unit Standard	Number	Title	Credits
AS 2.4	NYA	Demonstrate understanding of the nature of bonding, structure and enthalpy	5
AS 2.5	NYA	Demonstrate understanding of the properties of selected organic compounds	4
AS 2.6	NYA	Demonstrate understanding of equilibrium systems	4

Another **optional** achievement standard 2.3 (AS: NYA) worth three credits: Demonstrate understanding of the chemistry in a recent discovery or development will be offered to those students who want to collect more internal credits.

**Suggested pre-requisites:**

**SCI 101 (14 credits achieved including Science Achievement Standard 1.5 Acids and Bases)**

**Suggested further study:**

**CHE 301**

**Careers:**

**Any field involving the sciences**

**Course costs:**

**Workbook \$25**

**Contact persons:**

**Mr S Sawtell/Mr S McMillan**

