

Chemistry

Year and Campus:	2010
Coordinator:	.
Contact:	Email (http://studentadmin-unimelb.custhelp.com/cgi-bin/studentadmin_unimelb.cfg/php/enduser/ask.php?&p_srch=1&p_icf_47=945) the Science Student Centre
Overview:	Major study in Chemistry .
Objectives:	<p>Chemistry major students will develop the capacity to view the world from a molecular perspective and to solve complex problems that span the breadth of chemistry and other sciences. Specific core knowledge that will be developed includes: molecular design and synthesis, analysis and spectroscopic identification of chemical species, molecular dynamics, chemical kinetics, and thermodynamics. Skills that will be developed include: laboratory skills (e.g. observational; analytical techniques; report writing; safe laboratory practices); sophisticated problem solving skills (e.g. the ability to think abstractly, analytically and logically) as well as generic skills (e.g. written and oral communication, computer competency; independent learning; time and project management). Pathways for chemistry majors will include careers in research (through further study including MSc and PhD programs in chemistry and allied areas), teaching, government and professional positions.</p> <p>In 2010 a number of new third year level subjects have been introduced, replacing or adding to subjects previously available within the major. Some previously offered subjects have been cancelled. The University is committed to ensuring that students are not disadvantaged by these changes and students may complete a major as defined by the current structure or a structure detailed in a previous year's handbook applicable to any year the student was enrolled in the course. Students completing third year level subjects across multiple years (e.g. in 2009 and 2010) should refer to advice within each subject entry on non-allowed subject combinations. Students unsure about the structure of their intended major should seek advice from the Science Student Centre.</p>
Structure & Available Subjects:	<p>In 2010 a number of new third year level subjects have been introduced, replacing or adding to subjects previously available within the major. Some previously offered subjects have been cancelled. The University is committed to ensuring that students are not disadvantaged by these changes and students may complete a major as defined by the current structure or a structure detailed in a previous year's handbook applicable to any year the student was enrolled in the course. Students completing third year level subjects across multiple years (e.g. in 2009 and 2010) should refer to advice within each subject entry on non-allowed subject combinations. Students unsure about the structure of their intended major should seek advice from the Science Student Centre.</p>
Majors/Minors/Specialisations	<p>Chemistry major</p> <p>Completion of 50 points of study at third year level.</p> <p>Note that there are two course plans available for students majoring in Chemistry.</p> <p>1.For students who have not yet completed any third year chemistry subjects please follow the <u>New Generation BSc Chemistry major</u> (././CSCView?year=2010&code=%21R01-AA-SPC%2B1011&view=editor)</p> <p>2.For students who have previously completed some third year chemistry subjects the following plan applies:</p> <p>50 points selected from third year level chemistry subjects and including a minimum of two of the following core branches of chemistry (List A) plus a minimum of one of the following key chemistry subjects (List B) - noting that some combinations from List A and List B are mutually exclusive.</p>
Subject Options:	<p>LIST A (core branches of chemistry) - choose a minimum of two branches:</p> <ul style="list-style-type: none"> # Physical Chemistry # Organic Chemistry # Inorganic Chemistry # Analytical and Environmental Chemistry

Physical Chemistry

Either both

Subject	Study Period Commencement:	Credit Points:
CHEM30002 Physical Chemistry IIIB	Year Long	12.50
CHEM30003 Physical Chemistry Practical III	Semester 1	6.25

Or

Subject	Study Period Commencement:	Credit Points:
CHEM30001 Physical Chemistry IIIA	Year Long	12.50

Organic Chemistry

Either both

Subject	Study Period Commencement:	Credit Points:
CHEM30005 Organic Chemistry IIIB	Year Long	12.50
CHEM30006 Organic Chemistry Practical III	Semester 1	6.25

Or

Subject	Study Period Commencement:	Credit Points:
CHEM30004 Organic Chemistry IIIA	Year Long	12.50

Inorganic Chemistry

Either both

Subject	Study Period Commencement:	Credit Points:
CHEM30010 Inorganic Chemistry IIIB	Year Long	12.50
CHEM30011 Inorganic Chemistry Practical III	April	6.25

Or

Subject	Study Period Commencement:	Credit Points:
CHEM30009 Inorganic Chemistry IIIA	Year Long	12.50

Analytical and Environmental Chemistry

Subject	Study Period Commencement:	Credit Points:
CHEM30012 Analytical & Environmental Chemistry	Semester 1	12.50

LIST B (key chemistry subjects)

Select at least one of:

Subject	Study Period Commencement:	Credit Points:
CHEM30001 Physical Chemistry IIIA	Year Long	12.50
CHEM30002 Physical Chemistry IIIB	Year Long	12.50
CHEM30004 Organic Chemistry IIIA	Year Long	12.50
CHEM30005 Organic Chemistry IIIB	Year Long	12.50
CHEM30009 Inorganic Chemistry IIIA	Year Long	12.50

	CHEM30010 Inorganic Chemistry IIIB	Year Long	12.50
	CHEM30012 Analytical & Environmental Chemistry	Semester 1	12.50
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Commerce and Bachelor of Science Bachelor of Science Bachelor of Science and Bachelor of Information Systems		