## http://handbook.unimelb.edu.au/view/2012/!R01-AA-MAJ+1006

<u>Chemica</u>	al Sv	vste	ms

Year and Campus:	2012			
Coordinator:	Associate Professor David ShallcrossDepartment of Chemical and Biomolecular EngineeringAssociate Professor Sandra KentishDepartment of Chemical and Biomolecular Engineering			
Contact:	David Shallcross: <u>dcshal@unimelb.edu.au</u> (mailto:dcshal@unimelb.edu.au) Sandra Kentish: <u>sandraek@unimelb.edu.au</u> (mailto:sandraek@unimelb.edu.au)			
Overview:	Students who have undertaken the Chemical Systems fundamental science in chemical engineering to provide solutions to practical problems involving basic chemical core skills and knowledge that will be developed include that will lead to accurate computer modelling of process thinking, problem-solving and design skills, ability to ca eliminate or confirm possible solutions to complex prob ensure the development of excellent communication sk deliver complex scientific information in a clear and cor The Chemical Systems major provides a direct pathwar programs in chemical and biomolecular engineering. TI and recognized internationally as professional engineer these programs will be ready to work in a range of cher industries anywhere in the world.	major will be able to rigorous accurate information and op processing systems. More s so: fundamental scientific com systems, analytical and abs rry out laboratory experiment lems. In all levels of this majo ills that will enable our gradu icise fashion. y for admission to Masters in nese Masters programs will b ring degrees. Students gradu mical and biomolecular engin	ly integrate otimum specifically, iprehension stract is to or, we will lates to Engineering be accredited lating from leering	
Objectives:	The objective of the chemical systems major is to contribute to the academic preparation of graduates who embody the University of Melbourne graduate attributes, as well as additional attributes more specific to the Bachelor of Science.			
Structure & Available Subjects:	Completion of 50 points of study at Level 3.			
Subject Options:	All four of			
	Subject	Study Period Commencement:	Credit Points:	
	CHEN30001 Reactor Engineering	Semester 1	12.50	
	CHEN30005 Heat and Mass Transport Processes	Semester 1	12.50	
	ENGR30001 Fluid Mechanics & Thermodynamics	Semester 1, Semester 2	12.50	
	CHEN30015 Process Engineering Case Studies	Semester 2	12.50	
Notes:	In addition to these four core subjects, the Level 3 subject, MAST30023 Differential Equations for Engineers (not offered after 2011), will also be required in this major for students who have taken MAST20009 Vector Calculus instead of MAST20029 Engineering Mathematics at Level 2.			
Related Course(s):	Bachelor of Science			