

DOUBLE PROGRAM

B.E.(Chemical)/B.Fin. Academic Plan 2008

Year 1 - 24 units

Term	Subject Area	Catalogue Number	Course Description	Units
Sem 1	CHEM	1100	Chemistry IA	3.0
Sem 1	CHEM ENG	1008	Engineering Computing	3.0
Sem 1	MATHS	1011	Mathematics IA * <i>or</i>	
Sem 1	MATHS	1013	Mathematics IMA *	3.0
Sem 1	CHEM ENG	1010	Professional Practice	3.0
				12.0
Sem 2	CHEM	1200	Chemistry IB	3.0
Sem 2	MATHS	1012	Mathematics IB * <i>or</i>	
Sem 2	MATHS	1011	Mathematics IA *	3.0
Sem 2	CHEM ENG	1007	Process Engineering	3.0
Sem 2	ENV BIOL	1002	Ecological Issues	3.0
				12.0

* Students who have undertaken SACE Stage 2 Specialist Maths will be required to enrol in Mathematics IA followed by Mathematics IB.

* Students who have not taken SACE Stage 2 Specialist Maths will be required to enrol in Mathematics IMA followed by Mathematics IA and MATHS 1012 Mathematics IB. It is strongly recommended that students should enrol in Mathematics IB in summer semester 2009 to complete the requirements at Level 1. The satisfactory completion of Mathematics IB is in addition to the normal requirements of the B.E. Plan but a requirement for students who do not have SACE Stage 2 Specialist Maths. Enrolment in summer will enable students to complete the program in the minimum amount of time.

Year 2 – 24 units

Term	Subject Area	Catalogue Number	Course Description	Units
Sem 1	CHEM ENG	2001	Chemical Process Principles II	3.0
Sem 1	APP MTH	2000	Differential Equations and Fourier Series	2.0
Sem 1	CHEM ENG	2003	Introductory Process Fluid Mechanics	3.0
Sem 1	ECON	1000	Principles of Macroeconomics I	3.0
Sem 1	ECON	1004	Principles of Microeconomics I	3.0
				14.0
Sem 2	CHEM ENG	2000	Chemical Engineering Thermodynamics	2.0
Sem 2	CHEM ENG	3002	Essay and Seminar	2.0
Sem 2	STATS	2004	Laplace Transforms and Probability and Statistical Methods	2.0
Sem 2	APP MTH	2004	Numerical Methods in Engineering (Chemical)	2.0
Sem 2	CHEM ENG	2006	Plant and Process Engineering	2.0
				10.0

Year 3 - 24 units

Term	Subject Area	Catalogue Number	Course Description	Units
Sem 1	CHEM ENG	3003A	Chemical Engineering Projects III Part 1	2.0
Sem 1	CHEM ENG	3018	Fluid and Particle Mechanics	3.0
Sem 1	ECON	1009	International Financial Institutions and Markets I	3.0
Sem 1	CHEM ENG	3017	Kinetics and Reactor Design	3.0
Sem 1	CHEM ENG	3001	Materials III (CH)	2.0
				13.0
Sem 2	ACCTING	1002	Accounting for Decision Makers I	3.0
Sem 2	CHEM ENG	3003B	Chemical Engineering Projects III Part 2	2.0
Sem 2	CHEM ENG	3015	Process Control and Instrumentation	2.0
Sem 2	CHEM ENG	3014	Process Design and Plant Engineering	2.0
Sem 2	CHEM ENG	3005	Separation Processes	2.0
				11.0

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Year 4 - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	CHEM ENG	4009	Advanced Chemical Engineering	2.0
Sem 1	CHEM ENG	4010	Advanced Separation Techniques and Thermal Processes	2.0
Sem 1	CORPFIN	2006	Business Finance II	4.0
Sem 1	CHEM ENG	4025	Chemical Engineering Projects IV	2.0
Sem 1	CHEM ENG	4003	Process Dynamics and Control	2.0
				12.0
Sem 2	CHEM ENG	4027	Chemical Engineering Research Projects (N)* or	
Sem 2	CHEM ENG	4026	Chemical Engineering Research Projects (H)*	2.0
Sem 2	ECON	2006	Economic and Financial Data Analysis II	4.0
Sem 2	ECON	2012	Financial Economics II	4.0
Sem 2	CHEM ENG	4018	Industrial Economics and Management	2.0
				12.0

* Students accepted into the Honours stream will take Chemical Engineering Research Project (H) and other students will take Chemical Engineering Research Project (N).

Year 5 - 24 units

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 2	CHEM ENG	4014	Plant Design Project	6.0
				2.0
				16.0
				24.0

ELECTIVES

<i>Term</i>	<i>Subject Area</i>	<i>Catalogue Number</i>	<i>Course Description</i>	<i>Units</i>
Sem 1	CHEM ENG	4008	Biochemical Engineering	2.0
Sem 1	CHEM ENG	4002A	Chemical Engineering Research Elective II Part 1 *	2.0
Sem 1	CHEM ENG	4020A	Chemical Engineering Research Elective Part 1	1.0
Sem 1	CHEM ENG	4021	Combustion Processes	2.0
Sem 1	APP MTH	4007	Computational Fluid Dynamics (Engineering)	2.0
Sem 1	CHEM ENG	4004	Minerals Processing	2.0
Sem 1	CHEM ENG	4001	Special Studies in Chemical Engineering	2.0
Sem 2	CHEM ENG	4002B	Chemical Engineering Research Elective II Part 2 *	2.0
Sem 2	CHEM ENG	4020B	Chemical Engineering Research Elective Part 2	1.0
Sem 2	CHEM ENG	4001	Special Studies in Chemical Engineering	2.0

* Approval is needed from the Head of the School of Chemical Engineering to enrol in this course
With the approval of the Head of the School of Chemical Engineering, courses offered by other schools within the School of Engineering may be included in the selection of electives

Note: either pre-requisites, co-requisites or restrictions may be placed on courses (refer to 2008 Calendar or 2008 On-line Course Planner)