

Bachelor of Science and Bachelor of Engineering in the field of chemical engineering

Student ID		Student name	
Course code	0085	Year commenced course	
Course version	For students who commenced in 2005 onwards		
Credit points	240 points (40 x 6 points)		
Duration of degree	5 years full time, 10 years part time		
Time limit	10 years. Students have ten years in which to complete this award from the time they commence level one. Periods of intermission are counted as part of the eight years.		
Honours	Students are awarded a degree with honours for meritorious performance throughout the course. No additional time is required.		
Course adviser	http://www.eng.monash.edu.au/current-students/course-information.html#1		

Students should bring this course map with them when they seek course advice.

First year	Mark	Grade
Generic sequence		
<input type="checkbox"/> CHM1011 Chemistry		
<input type="checkbox"/> CHM1022 Chemistry		
<input type="checkbox"/> ENG1010 Process systems analysis		
<input type="checkbox"/> ENG1060 Computing for engineers		
Select a pair of maths units from:		
<input type="checkbox"/> MTH1020 Multivariable calculus (if VCE Specialist Maths 3/4 not completed)		
MTH1030 Techniques for modelling		
<input type="checkbox"/> MTH1030 Techniques for modelling		
MTH2010 Multivariable calculus		
Plus a pair of science units from:		
<input type="checkbox"/> ASP1010 Earth to cosmos – introductory astronomy		
ASP1022 Life and universe		
<input type="checkbox"/> BIO1011 Biology I		
BIO1022 Biology II		
<input type="checkbox"/> ESC1011 Planet Earth and its environment: the cosmic connection		
ESC1022 Planet Earth: dynamic systems, environmental change and resources		
<input type="checkbox"/> FIT1002 Computer programming		
FIT1015 Computer science		
<input type="checkbox"/> PHS1011 Physics (or PHS1080 Foundation physics if VCE Physics 3/4 not completed)		
PHS1022 Physics		

<input type="checkbox"/> STA1010 Statistical methods for science		
MTH1112 Numbers, logic and graphs		
Major sequence in life sciences		
<input type="checkbox"/> BIO1011 Biology I		
<input type="checkbox"/> BIO1022 Biology II		
<input type="checkbox"/> CHM1011 Chemistry		
<input type="checkbox"/> CHM1022 Chemistry		
<input type="checkbox"/> ENG1010 Process systems analysis		
<input type="checkbox"/> ENG1060 Computing for engineers		
Select a pair of maths units from:		
<input type="checkbox"/> MTH1020 Analysis of change (if VCE Specialist Maths 3/4 not completed)		
MTH1030 Techniques for modelling		
<input type="checkbox"/> MTH1030 Techniques for modelling		
MTH2010 Multivariable calculus		
Major sequence in chemistry with a minor sequence in life sciences		
<input type="checkbox"/> BIO1011 Biology I		
<input type="checkbox"/> BIO1022 Biology II		
<input type="checkbox"/> CHM1011 Chemistry		
<input type="checkbox"/> CHM1022 Chemistry		
<input type="checkbox"/> ENG1010 Process systems analysis		
<input type="checkbox"/> ENG1060 Computing for engineers		
Select a pair of maths units from:		
<input type="checkbox"/> MTH1020 Analysis of change (if VCE Specialist Maths 3/4 not completed)		
MTH1030 Techniques for modelling		
<input type="checkbox"/> MTH1030 Techniques for modelling		
MTH2010 Multivariable calculus		
Second year	Mark	Grade
Generic Sequence		
<input type="checkbox"/> CHE2161 Fluid mechanics		
<input type="checkbox"/> CHE2162 Material and energy balances		
<input type="checkbox"/> CHE2163 heat and mass transfer		
<input type="checkbox"/> CHE2164 Thermodynamics I		
<input type="checkbox"/> MTH2021 Linear algebra with applications		
<input type="checkbox"/> MTH2032 Differential equations with modelling (and MTH2010 if that was not taken at stage 1)		
An approved 12 point science sequence		
<input type="checkbox"/>		
<input type="checkbox"/>		
Major sequence in life sciences		
<input type="checkbox"/> CHE2161 Fluid mechanics		
<input type="checkbox"/> CHE2162 Material and energy balances		

<input type="checkbox"/> CHE2163 heat and mass transfer		
<input type="checkbox"/> CHE2164 Thermodynamics I		
<input type="checkbox"/> MTH2021 Linear algebra with applications		
<input type="checkbox"/> MTH2032 Differential equations with modelling (and MTH2010 if that was not taken at stage 1)		
Select one pair of units from:		
<input type="checkbox"/> BCH2011 Structure and function of cellular biomolecules		
BCH2022 Metabolic basis of human diseases		
<input type="checkbox"/> MIC2011 Microbiology: the microbiological world		
MIC2022 Microbiology: host and environmental interactions		
<input type="checkbox"/> MOL2011 Molecular biology: genes and their expression		
MOL2022 Molecular biology: gene technology and its application		
Major sequence in chemistry with a minor sequence in life sciences		
<input type="checkbox"/> CHE2161 Fluid mechanics		
<input type="checkbox"/> CHE2162 Material and energy balances		
<input type="checkbox"/> CHE2163 heat and mass transfer		
<input type="checkbox"/> CHE2164 Thermodynamics I		
<input type="checkbox"/> MTH2021 Linear algebra with applications		
<input type="checkbox"/> MTH2032 Differential equations with modelling (and MTH2010 if that was not taken at stage 1)		
12 points of approved science units towards a major sequence in chemistry		
<input type="checkbox"/>		
<input type="checkbox"/>		
Third Year	Mark	Grade
Generic Sequence		
<input type="checkbox"/> CHE3161 Chemistry and chemical thermodynamics		
<input type="checkbox"/> CHE3162 Process control		
<input type="checkbox"/> CHE3163 Sustainable processing I		
6 point approved chemical engineering unit		
<input type="checkbox"/>		
24 points of approved science units to complete a major sequence in science		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
Major sequence in life sciences		
<input type="checkbox"/> CHE3161 Chemistry and chemical thermodynamics		
<input type="checkbox"/> CHE3162 Process control		
<input type="checkbox"/> CHE3163 Sustainable processing I		
6 point approved chemical engineering unit		
<input type="checkbox"/>		

12 points of approved science units towards a major sequence in biochemistry, microbiology or molecular biology		
<input type="checkbox"/>		
<input type="checkbox"/>		
12 points of approved science units to complete a minor sequence in chemistry		
<input type="checkbox"/>		
<input type="checkbox"/>		
Major sequence in chemistry with a minor sequence in life sciences		
<input type="checkbox"/> BCH2011 Structure and function of cellular biomolecules		
<input type="checkbox"/> BCH2022 Metabolic basis of human diseases		
<input type="checkbox"/> CHE3161 Chemistry and chemical thermodynamics		
<input type="checkbox"/> CHE3162 Process control		
<input type="checkbox"/> CHE3163 Sustainable processing I		
6 points of approved chemical engineering unit		
<input type="checkbox"/>		
12 points of approved science units towards a major sequence in chemistry		
<input type="checkbox"/>		
<input type="checkbox"/>		
Fourth year	Mark	Grade
Generic sequence		
<input type="checkbox"/> CHE3164 Reaction engineering		
<input type="checkbox"/> CHE3165 Separation processes		
<input type="checkbox"/> CHE3166 Process design		
6 point approved chemical engineering unit		
<input type="checkbox"/>		
24 points of approved science units to complete a second major sequence, or a double major sequence, in science		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
Major sequence in life sciences		
<input type="checkbox"/> CHE3164 Reaction engineering		
<input type="checkbox"/> CHE3165 Separation processes		
<input type="checkbox"/> CHE3166 Process design		
<input type="checkbox"/> CHE3171 Bioprocess technology		
12 points of approved science units to complete a major sequence in biochemistry, microbiology or molecular biology		
<input type="checkbox"/>		
<input type="checkbox"/>		
12 points of approved science units to complete an additional minor sequence in science		

<input type="checkbox"/>		
<input type="checkbox"/>		
Major sequence in chemistry with a minor sequence in life sciences		
<input type="checkbox"/> CHE3164 Reaction engineering		
<input type="checkbox"/> CHE3165 Separation processes		
<input type="checkbox"/> CHE3166 Process design		
<input type="checkbox"/> CHE3171 Bioprocess technology		
12 points of approved science units to complete a major sequence in chemistry		
<input type="checkbox"/>		
<input type="checkbox"/>		
12 points of approved science units to complete an additional minor sequence in science		
<input type="checkbox"/>		
<input type="checkbox"/>		
Fifth year	Mark	Grade
Generic sequence		
<input type="checkbox"/> CHE4161 Engineering in society		
<input type="checkbox"/> CHE4162 Particle technology		
<input type="checkbox"/> CHE4163 Transport phenomena and numerical methods		
<input type="checkbox"/> CHE4170 Design project (12 points)		
<input type="checkbox"/> CHE4180 Chemical engineering project (12 points)		
6 point approved chemical engineering unit		
<input type="checkbox"/>		
Major sequence in life sciences		
<input type="checkbox"/> CHE4161 Engineering in society		
<input type="checkbox"/> CHE4162 Particle technology		
<input type="checkbox"/> CHE4163 Transport phenomena and numerical methods		
<input type="checkbox"/> CHE4170 Design project (12 points)		
<input type="checkbox"/> CHE4180 Chemical engineering project (12 points)		
<input type="checkbox"/> CHE4171 Biochemical engineering		
Major sequence in chemistry with a minor sequence in life sciences		
<input type="checkbox"/> CHE4161 Engineering in society		
<input type="checkbox"/> CHE4162 Particle technology		
<input type="checkbox"/> CHE4163 Transport phenomena and numerical methods		
<input type="checkbox"/> CHE4170 Design project (12 points)		
<input type="checkbox"/> CHE4180 Chemical engineering project (12 points)		
<input type="checkbox"/> CHE4171 Biochemical engineering		

Professional requirements		
Students may not graduate until they have completed their work experience and submitted a satisfactory report on the experience		
<input type="checkbox"/> 12 weeks approved engineering work experience		
<input type="checkbox"/> Report submitted to department and approved		

Every effort has been made to ensure that the information provided is correct at the time of publication.
 Monash University reserves the right to alter this information should the need arise. October 2007