

CHEMISTRY - SPECIALIZATION (SCIENCE) -**BACHELOR OF SCIENCE (HONOURS)**

CHEM-P-BSH

Subject: Administered by the Department of Chemistry. Plan: Consists of 90.00 units as described below.

Program: The Plan, together with sufficient electives to total 120.00 units, will lead to a Bachelor of Science (Honours) Degree.

Code	Title	Units
1. Core		
A. Complete t	he following:	
CHEM 112	General Chemistry	6.00
B. Complete 6	.00 units from the following:	6.00
PHYS 104	Fundamental Physics	
PHYS 106	General Physics	
PHYS 115 & PHYS 116	Introduction to Physics I and Introduction to Physics II	
C. Complete 3	.00 units from the following:	3.00
MATH 110	Linear Algebra	
MATH 111	Linear Algebra	
MATH 112	Introduction to Linear Algebra	
D. Complete 6	.00 units from the following:	6.00
MATH 120	Differential and Integral Calculus	
MATH 121	Differential and Integral Calculus	
MATH 123 & MATH 124	Differential and Integral Calculus I and Differential and Integral Calculus II	
E. Complete tl	he following:	
CHEM 211	Main Group Chemistry	3.00
CHEM 212	Principles of Chemical Reactivity	3.00
CHEM 213	Introduction to Chemical Analysis	3.00
CHEM 221	Material, Solutions, and Interfaces	3.00
CHEM 222	Methods of Structure Determination	3.00
CHEM 223	Organic Reactions	3.00
F. Complete th	ne following:	
CHEM 311	Mechanistic Organic Chemistry	3.00
CHEM 312	Transition Metal Chemistry	3.00
CHEM 313	Quantum Mechanics	3.00
CHEM 321	Instrumental Chemical Analysis	3.00
CHEM 322	The Chemical Bond: Computation and Spectroscopy	3.00
CHEM 323	Biological Chemistry	3.00
CLIEM 207	Even a visco a ratal Charmieter v	C 00

Total Units		120.00
Elective Cour	rses	30.00
Electives		
CHEM_Sub	os	
CHEM at a	iny level	
B. Complete 9.00 units from the following:		9.00
CHEM_Suk	os	
CHEM at t	he 400-level or above	
A. Complete	e 12.00 units from the following:	12.00
2. Option		
CHEM 497	Research Project	6.00

4. Additional Requirements

A. Maximum of 12.00 units may be chosen from CHEM Subs.

5. Notes

A. A maximum of 6.00 units from courses offered by other Faculties and Schools may be counted toward the program and/or Plan Requirements. This includes courses in BMED, COMM, GLPH, HSCI, LAW, NURS, and courses in the Faculty of Engineering and Applied Science.

Chemistry Course List

The following list contains courses offered through other Departments. In accordance with Academic Regulation 2.6 (Access to Classes), students do not have enrolment priority in all of these courses. Access to these courses may only be made available during the Open Enrolment period, and then only if space permits.

CHEM_Subs

6.00

Code	litle	Units	
Substitutions in the Chemistry Specialization Plan			
BCHM 218	Molecular Biology	3.00	
BCHM at the 300-level or above			

CHEM 397

Experimental Chemistry