

Programme Name	Bachelor of Science (Double Major Chemistry)
Programme Description	Undergraduate degree program
Majors	Chemistry Double Major
Minimum Requirements	The minimum entry requirement for this program is a pass (200/400) in year 13/foundation science or its equivalent program/units, with emphasis on Mathematics, English and any two of the Biology, Chemistry or Physics subjects. Mature students with a minimum age of 23 years and relevant work experience may also be considered for candidature.
Duration	Three years
Programme Type	Bachelor's Degree
College Name	College of Engineering Science & Technology
Campus	Lautoka and Nabua Campuses
Credit Points	360

Program Structure (Chemistry Double** Major)		
Course Code	Course Title	Credit Points
Year 1 Semester 1		
CHM503SEM	General Chemistry#	15
CIN5xxSEM	Generic Computer Unit	15
LNG5xxSEM	Generic English Language Unit	15
XXX5XXSEM	Elective 1	15
Year 1 Semester 2		
CHM504SEM	Organic Chemistry#	15
CHM506SEM	Biochemistry (Elective)	15
ETH501SEM	Ethics, Values and Governance	15
XXX5XXSEM	Elective 2	15
Year 2 Semester 1		
CHM601SEM CHM604SEM CHM605SEM CHM606SEM CHM612SEM CHM614SEM (Any Two only)	Chemistry Elective-1	15
	Chemistry Elective 2	15

XXX6XXSEM	Elective 3	15
XXX6XXSEM	Elective 4	15
Year 2 Semester 2		
CHM602SEM	Physical Chemistry#	15
CHM603SEM	Inorganic Chemistry#	15
CHM607SEM CHM613SEM CHM615SEM CHM616SEM	Alternative Chemistry Elective 2 for Nabua Campus	
XXX6XXSEM	Elective 5	15
XXX6XXSEM	Elective 6	15
Year 3 Semester 1		
CHM701SEM	Modern Instrumentation Methods & Techniques#	15
CHM703SEM CHM706SEM CHM707SEM (Any one only)	Chemistry Elective 3	15
XXX7XXSEM	Elective 6	15
XXX7XXSEM	Elective 7	15
Year 3 Semester 2		
CHM704SEM CHM705SEM CHM708SEM CHM709SEM (Any two only)	Chemistry Elective 4	15
	Chemistry Elective 5	15
XXX7XXSEM	Elective 8	15
XXX7XXSEM	Elective 9	15
Total Credit Points		360
<p>** : XXX = Any other second subject within CEST/FNU. (Please consult respective HOD & Department document for availability of units and unit plan in the second majoring subject of your choice.)</p> <p># Compulsory Courses</p>		

Course Prerequisite		
Course Code	Course Title	Prerequisite
CHM501	Applied Chemistry	Pass in year 13/Form 7 with chemistry or equivalent
CHM502	Fundamentals of Analytical Chemistry	Pass in year 13/Form 7 with chemistry or equivalent
CHM503	General Chemistry	Pass in year 13/Form 7 with chemistry or equivalent

CHM504	Organic Chemistry	Pass in year 13/Form 7 with chemistry or equivalent
CHM505	Introductory Chemistry	Pass in year 13/Form 7 with chemistry or equivalent
CHM506	Bio-Chemistry	Pass in year 13/Form 7 with chemistry or equivalent
CHM601	Instrumental Chemistry	CHM501 or CHM503/CHM504
CHM602	Physical Chemistry	CHM501 or CHM503/CHM504
CHM603	Inorganic Chemistry	CHM501 or CHM503/CHM504
CHM604	Environmental Chemistry	CHM501 or CHM503/CHM504
CHM605	Applied Mathematics & Quantum Chemistry	CHM501 or CHM503/CHM504
CHM606	Food Chemistry	CHM501 or CHM503/CHM504
CHM607	Marine Chemistry	CHM501 or CHM503/CHM504
CHM612	Industrial Chemistry	CHM501 or CHM503/CHM504
CHM613	Analytical Research Project	CHM501 or CHM503/CHM504
CHM614	Industrial Hygiene and Chemical Safety	CHM501 or CHM503/CHM504
CHM615	Good Laboratory and Manufacturing Practices	CHM501 or CHM503/CHM504
CHM616	Industrial Chemistry of Foods and Beverages	CHM501 or CHM503/CHM504
CHM701	Modern Instrumentation Methods & Techniques	CHM602/CHM603
CHM703	Advanced Organic Chemistry	CHM602/CHM603
CHM704	Chemistry of Materials and Polymers	CHM602/CHM603
CHM705	Chemistry of Dyes and Pigments	CHM602/CHM603
CHM706	Advanced Physical Chemistry	CHM602
CHM707	Advanced Inorganic Chemistry	CHM603
CHM708	Medicinal Chemistry	CHM602/CHM603
CHM709	Chemical Analysis of Foods	CHM602/CHM603/CHM606
<i>Pre-Degree Bridging Units</i>		
CHM301	Preliminary Chemistry I	Pass in year 11/Form 5 with chemistry or equivalent
CHM302	Preliminary Chemistry II	Pass in year 11/Form 5 with chemistry or equivalent
CHM402	Foundation Chemistry I	Pass in year 12/Form 6 with chemistry or equivalent
CHM403	Foundation Chemistry II	Pass in year 12/Form 6 with chemistry or equivalent
CHM406	Engineering Chemistry	Pass in year 12/Form 6 with chemistry or equivalent

CHM470	Engineering Chemistry Laboratory	Pass in year 12/Form 6 with chemistry or equivalent
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