

Programme Name	Bachelor of Science (Chemistry & Mathematics)
Programme Description	Undergraduate degree program
Majors	Chemistry & Mathematics
Minimum Requirements	Pass in Year 13 with 200 out of 400 marks with 50% minimum marks in Mathematics, English, Chemistry and any 1 of the Biology, Technical Drawing/ Applied Technology or Physics subjects OR Foundation Science with GPA of 2.00 or more
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
CIN506SEM	Computer Principles	15
LNG501SEM	English for Academic Studies	15
MTH515	Single Variable Calculus	15
	Year 1 Semester 2	
CHM504SEM	Organic Chemistry [#]	15
CHM506SEM	Biochemistry (Elective)	15
ETH501SEM	Intermediate Ethics and Governance	15
MTH514SEM	Probability and Statistics	15
	Year 2 Semester 1	
CHM604SEM CHM605SEM CHM606SEM CHM612SEM CHM614SEM (Any Two only)	Chemistry Elective-1	15
	Chemistry Elective 2	15

MTH611	Real Analysis	15
MTH612	Abstract Algebra	15
	Year 2 Semester 2	
CHM602SEM	Physical Chemistry [#]	15
CHM603SEM	Inorganic Chemistry [#]	15
CHM607SEM CHM613SEM CHM615SEM CHM616SEM	Alternative Chemistry Elective 2 for Nabua Campus	
MTH610	Ordinary and Partial Differential Equations	15
MTH613	Linear Algebra	15
	Year 3 Semester 1	
CHM701SEM	Modern Instrumentation Methods & Techniques [#]	15
CHM703SEM CHM706SEM CHM707SEM (Any one only)	Chemistry Elective 3	15
MTH710	Complex Analysis	15
MTH711	Numerical Analysis	15
	Year 3 Semester 2	
CHM704SEM CHM705SEM CHM708SEM CHM709SEM (Any two only)	Chemistry Elective 4	15
	Chemistry Elective 5	15
MTH712	Linear Programming	15
MTH715	Integral Transforms	15
Total Credit Points		360
**:# Compulsory Courses		

Course Prerequisite		
Course Code	Course Title	Prerequisite
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
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
MTH515	Single Variable Calculus	Pass in Year 13 Mathematics or Foundation Mathematics or Equivalent
MTH514	Probability and Statistics	Pass in Year 13 Mathematics or Foundation Mathematics or Equivalent
MTH516	Solid Geometry and Multivariable Calculus	Pass in Year 13 Mathematics or Foundation Mathematics or Equivalent
MTH511	Discrete Mathematics	Pass in Year 13 Mathematics or Foundation Mathematics or Equivalent
MTH611	Real Analysis	Pass in MTH515 or MTH516
MTH612	Abstract Algebra	Pass in MTH511
MTH610	Ordinary and Partial Differential Equations	Pass in MTH515 or MTH516
MTH613	Linear Algebra	Pass in MTH515 or MTH516
MTH710	Complex Analysis	Pass in MTH611
MTH711	Numerical Analysis	Pass in MTH611 or MTH613

MTH712	Linear Programming	Pass in any 600 level Mathematics course
MTH715	Integral Transforms	Pass in MTH610
<i>Pre-Degree Bridging Units</i>		
CHM301	CHM301	CHM301
CHM302	CHM302	CHM302
CHM402	CHM402	CHM402
CHM403	CHM403	CHM403
CHM406	CHM406	CHM406
CHM470	CHM470	CHM470
<i>Pre-Degree Bridging Units</i>	<i>Pre-Degree Bridging Units</i>	<i>Pre-Degree Bridging Units</i>