

Programme Name	Bachelor of Science in Environmental Science		
Programme Description	<p>Our overall objective is to introduce the field of environmental science and show an understanding of the natural world around us and how the application of scientific methods can help us address the problems facing our planet.</p> <p>Our specific objectives are:-</p> <ul style="list-style-type: none"> • To introduce a variety of environmental problems, and solutions, in a scientific context • Identify and evaluate human influences on natural processes of earth systems and assess the extent of environmental problems and ways to address them in the future. • Encourage students to develop skills and the interdisciplinary understanding needed to deal with environmental issues. • Train students to have enhanced capacity to fit into careers that are involved in conservation biology, pollution, prevention and abatement, ecosystems protection, restoration and management of aquatic and terrestrial environments. • Successfully perform a given research method using the skills and knowledge obtained. • Gather and prepare samples for scientific and statistical analysis. • Show competence in data gathering, statistical analysis, interpretation, and reporting of results for decision making. • Develop skills in experimental design and literature searching. • Apply mathematical and statistical analysis to improve the understanding of environmental information and to correlate quality parameters or physical properties to analytical data. • Maintain quality standard of practice in the workplace. • Perform safe working methods of chemical and biological analyses, according to the Occupational Health & Safety act. • Relate the knowledge obtained in theory to the everyday life. • Design spread sheets with Microsoft Excel to build and maintain accurate & precise analytical databases with information that has been collected in the laboratories or field • Identify and evaluate environmental hazards, and display safety with chemicals, biological samples, biological wastes and waste disposal 		
Majors	Environmental Sciences Single major		
Minimum Requirements	<p>The minimum entry requirement for this programme 200/400 in form seven or foundation science programme, with English and Maths any two of the following subjects: Biology, Chemistry, Physics or Agriculture or Geography.</p> <p>Mature students with a minimum age of 23 years and relevant work experience may also be considered for candidature.</p>		
	Subject	Min. Marks	Remarks

English	50	Compulsory if less than 50 need to take foundation in English
Math	50	Compulsory if less than 50 need to take foundation in Mathematics
Biology	50	Optional if less than 50 need to take foundation in Biology
Agriculture	50	Optional if less than 50 need to take foundation in Agriculture
Physics	50	Optional if less than 50 need to take foundation in Physics
Chemistry	50	Optional if less than 50 need to take foundation in Chemistry
Geography	50	Optional if less than 50 need to take foundation in Geography
Total Mark Required	200/400	Year 13 or Foundation GPA more than 2.0

The student must pass Year 13 with 200 out of 400 marks with 50% minimum mark in English, Mathematics and two other science subjects; either Biology, Agriculture, Physics, Chemistry or Geography OR Foundation Science with GPA of 2.00 or more to enroll into the BSc. Environmental Science program

Duration	Three Years
Programme Type	Bachelor's Degree
College Name	College of Engineering Science and Technology
Campus	Natabua, Lautoka/Nabua Suva Face to Face (Subjected to availability of Academics)
Credit Points	360

Programme Structure		
Course Code	Course Title	Credit Points

Year 1 Semester 1		
ENS501Sem	Introduction to Environmental Science (Compulsory)	15
ENS503 Sem	Environmental Field Sampling (Elective)	15
ETH501 Sem	Ethics Value and Governance (Generic)	15
CIN5XX Sem	Computer Unit (Generic)	15
CHM505 Sem	Introductory Chemistry (Elective)	15
BIO507 Sem	Environmental Biology (Elective)	15
PHY506 Sem	Introductory Physics (Elective)	15
Year 1 Semester 2		
ENS504 Sem	Earth Processes and Resources (Compulsory)	15
LNG501 Sem	English for Academic Studies (Generic)	15
CHM502 Sem	Analytical Chemistry (Elective)	15
BIO511 Sem	Introductory Biology (Elective)	15
MTH514 Sem	Statistics and Probability (Elective)	15
	Note: Students have to take any 3 electives from the 6 listed electives.	
Total Credit Points		120

Course Prerequisite		
Course Code	Course Title	Prerequisite
ENS501Sem	Introduction to Environmental Science (Compulsory)	
ENS503 Sem	Environmental Field Sampling (Elective)	
ENS504 Sem	Earth Processes and Resources(Compulsory)	
ETH501 Sem	Ethics Value and Governance (Generic)	
LNG501 Sem	English for Academic Studies(Generic)	
CIN5XX Sem	Information Systems in Organizations (Generic)	
CHM505 Sem	Introductory Chemistry (Elective)	
BIO507 Sem	Environmental Biology (Elective)	
PHY506 Sem	Introductory Physics (Elective)	
CHM502 Sem	Analytical Chemistry (Elective)	

BIO511 Sem	Introductory Biology (Elective)	
MTH514 Sem	Statistics and Probability (Elective)	
ENS601 Sem	Environmental Biology (Elective)	ENS501Sem
ENS603 Sem	Environmental Law (Compulsory)	
ENS604 Sem	Environmental Research Methodologies (Compulsory)	
ENS610 Sem	Biodiversity Conservation and Sustainable Development (Compulsory)	ENS501Sem
ENS611 Sem	Environmental Pollution (Compulsory)	
CHM601 Sem	Instrumental Chemistry (Elective)	
MTH602 Sem	Statistical Mathematics (Elective)	
CHM604 Sem	Environmental Chemistry (Elective)	
PHY601 Sem	Environmental Physics (Elective)	
CHM607 Sem	Marine Chemistry (Elective)	
ENS702 Sem	Fiji and South Pacific Marine Ecology (Elective)	
ENS705 Sem	Fiji and South Pacific Coastal Management (Compulsory)	
ENS706 Sem	Environmental Impact Assessment (Elective)	ENS603Sem
ENS707 Sem	Mining and It's Environment (Elective)	
ENS708 Sem	Geographic Information Systems (Compulsory)	
ENS709 Sem	Field Project (Compulsory)	ENS604 Sem
ENS711 Sem	Atmospheric Science and Global Climate Change (Compulsory)	ENS504 Sem
ENS712 Sem	Oceanography (Elective)	
ENS716 Sem	Advanced Ecology (Elective)	ENS610 Sem
PHY703 Sem	Renewable and sustainable energy (Elective)	

