

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	A Pass in Year 13 with 200 out of 400 marks with 50% minimum marks in Mathematics, English and any 2 of the Biology, Chemistry, Physics, Introduction to Technology, Agriculture or Geography 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 and Technology
Campus	Natabua, Lautoka/Nabua Suva Face to Face (Subjected to availability of Academics)
Credit Points	360

Programme Structure			
Course Code	Course Title	Prerequisites	Credit Points
Year 1 Semester 1			
ENS501Sem	Introduction to Environmental Science (Compulsory)	MER	15
ENS503 Sem	Environmental Field Sampling (Elective)	MER	15
ETH501 Sem	Ethics Value and Governance (Generic)	MER	15
CIN502 Sem	Information Systems in Organizations (Generic)	MER	15
CHM505 Sem	Introductory Chemistry (Elective)	MER	15
BIO507 Sem	Environmental Biology (Elective)	MER	15
			15
Year 1 Semester 2			
ENS504 Sem	Earth Processes and Resources (Compulsory)	MER	15
LNG501 Sem	English for Academic Studies (Generic)	MER	15
CHM502 Sem	Analytical Chemistry (Elective)		15
BIO511 Sem	Introductory Biology (Elective)		15
MTH514 Sem	Statistics and Probability (Elective)		15
Year 2 Semester 1			
ENS601 Sem	Environmental Biology (Elective)	MER	15
ENS604 Sem	Environmental Research Methodologies (Compulsory)	MER	15
CHM601 Sem	Instrumental Chemistry (Elective)		15
MTH602 Sem	Statistical Mathematics (Elective)	MER	15
CHM604 Sem	Environmental Chemistry (Elective)		15
Year 2 Semester 2			
ENS611 Sem	Environmental Pollution (Compulsory)	ENS501	15
ENS603 Sem	Environmental Law	MER	15
ENS610 Sem	Biodiversity Conservation and Sustainable Development	MER	15
PHY601 Sem	Environmental Physics (Elective)		15
CHM607 Sem	Marine Chemistry (Elective)		15
Year 3 Semester 1			
ENS706 Sem	Environmental Impact Assessment (Elective)	ENS603	15
ENS708 Sem	Geographic Information Systems (Compulsory)	MER	15
ENS712 Sem	Oceanography (Elective)	MER	15
ENS703 Sem	Fiji and South Pacific Freshwater Ecology (Elective)		15
PHY703 Sem	Renewable and sustainable energy (Elective)		15

ENS702 Sem	Marine Ecology (Elective)	MER	
	Year 3 Semester 2		
ENS711 Sem	Atmospheric Science and Global Climate Change (Compulsory)	ENS504	15
ENS709 Sem	Field Project (Compulsory)	Successfully completed 500 and 600 level	15
ENS716 Sem	Advanced Ecology (Elective)	MER	15
ENS705 Sem	Fiji and South Pacific Coastal Management (Compulsory)	ENS502&ENS602	15
ENS707 Sem	Mining and It's Environment (Elective)	MER	15
ENS704 Sem	Fiji and South Pacific Terrestrial Ecology (Elective)	MER	15
	(Note: Students have to take any 3 electives from the 6 listed electives in year 1)		
	(Note: Students have to take any 4 electives from the 6 listed electives in year 2)		
	(Note: Students have to take any 4 electives from the 8 listed electives in year 3)		
	Total Credit Points		360

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)	