

Course: Biology		Course No: 11030	
2 units for each of Year 11 and HSC Board Developed Course		Exclusions: Nil	
<p>Course Description</p> <p>The Year 11 course investigates cellular structure and provides a base for understanding the way in which multicellular organisms transport and absorb nutrients and carry out gas exchange. Exploring variations in the structures and functions of organisms provides an understanding of the effects of the environment on living things and how this leads to biodiversity.</p> <p>The Year 12 course investigates reproduction, inheritance patterns and the causes of genetic variation in both plants and animals. Applications of this knowledge in biotechnology and various genetic technologies are explored in the light of their uses in the treatment, prevention and control of infectious and non-infectious diseases.</p>			
<p>Topics Covered</p> <p>Year 11: The Year 11 course consists of four modules. Module 1 – Cells as the Basis of Life Module 2 - Organisation of Living Things Module 3 - Biological Diversity Module 4 - Ecosystem Dynamics</p> <p>Year 12: The Year 12 course consists of four modules. Module 5 - Heredity Module 6 - Genetic Change Module 7 - Infectious Disease Module 8 - Non-infectious Disease and Disorders</p>			
<p>Particular Course Requirements</p> <p>Students are provided with 15 hours of course time for depth studies in both Year 11 and Year 12. During this time students may undertake an investigation/activity that allows for the further development of one or more scientific concepts.</p> <p>A depth study may be one investigation/activity or a series of investigations/activities. Depth studies may be included in one module or across several modules.</p> <p>Practical investigations are an essential part of the Year 11 and Year 12 courses and must occupy a minimum of 35 hours of course time each year.</p> <p>Fieldwork is also mandated in Year 11 and is an integral part of the learning process.</p>			
Assessment: HSC course only			
External Assessment	Weighting	Internal Assessment	Weighting
A single HSC Examination. Duration – 3hrs Content of the Examination – The Year 11 course is assumed knowledge for the Year 12 course.	100	A variety of tasks that will be weighted as follows: Skills in working scientifically Knowledge & Understanding of course content	60 40
	100		100

Subject Fee: \$15