

PROJECT SCIENCE SCI102

<p>SUBJECT DESCRIPTION</p>	<p>Science is a process which seeks explanations of natural phenomena It incorporates ways of thinking that are both creative and critical. Scientists develop explanations of natural phenomena based on evidence derived from experimentation and observation, in turn this process develops theories, principles and laws. Accepted scientific concepts, theories and mode are perceived as viable in light of current available evidence; scientific knowledge is subject to questioning and may be reconfirmed, challenged, modified or replaced. New understandings continually arise. These are essential characteristics of science.</p>
<p>PREREQUISITES Level of junior achievement required to successfully complete the subject</p>	<p>A grade of C in SAM and HUM.</p>
<p>EXPECTED OUTCOMES Aims of the subject</p>	<p>By the end of this course students should have developed: An appreciation of the role of science in the development of 21st century society and the impacts of science on society. Understand the diverse nature of science and how Science and Technology underpins our daily lives. Work with technology and Science to detect record process analyse and report scientific information clearly and concisely.</p>
<p>COURSE OUTLINE/UNITS</p>	<p>The students will undertake a course of study which will lead them to undertake a single major project ,write an extended report on a topic of their choice and undertake a number of smaller experiments and write a number of practical reports. The key organisers for their studies are Technology; Health and Wellbeing; Material Science; the Environment; Discovery and Breakthroughs and the Earth Space and Natural Forces . The course undertaken by the students will be developed by them in conjunction with the teacher. Students will work both individually and in groups throughout the semester using a contextual base derived from one of the key organisers.</p>
<p>ASSESSMENT/ WORKLOAD Expected work and study requirements</p>	<p>One Major Research Project 1500-2000 words. One Extended Report 1500 words. A collection of 3-5 small reports 200-300 words each. To successfully navigate the coursework in Project Science a typical student would need to spend an equivalent amount of time engaged in external study as they do in class work. Student will need to read generally about Science ; read specific topics; complete set tasks, assignment, practicals and projects. Students must complete validating tasks such as work logs or blogs and design develop and perform scientific inquiry exercises and tasks. All of which will require a considerable amount of out of class time.</p>
<p>BENEFITS OF STUDYING THIS SUBJECT Career prospects / relevance to the future</p>	<p>Year 10 Science opens the doorway to further studies in the Sciences. Success in the year 10 course will prepare students to participate in one or more of the following subjects Biological Science, Multistrand Science, Chemistry and Physics. It should be noted that a growing demand for technological advances means there will be a growing demand for people working in the fields of science, technology, engineering and mathematics. New work programs are being undertaken in the Senior Science subjects, so now is the time to prepare for the future of work.</p>
<p>CONTACT PERSON</p>	<p>Mr Shaun Pritchard Head of Department</p>