

SCIENCE

SCI 301

*This **is** an approved subject*

Students will be expected to apply scientific knowledge, learn new practical skills and analyse human interaction and the environment. The course will involve field work, physical and chemical monitoring of the environment, environmental planning and management. The course content is independent of the other sciences offered at this level. A background in Geography and the Sciences at level 2 would be an advantage.

Assessment will be against a mixture of Achievement and Unit Standards in the approved subjects of Science and Education for Sustainability. The standards will be selected from those listed below. All standards are internally examined and at level 3.

INTERNAL ASSESSMENT

| Topic | No. | Title | Context | Credits |
|-------------------------------------|---------|---|---|----------|
| Hydrology | US8153 | Explain factors affecting a water resource and its management and plot and interpret hydrographs | Kaikorai Stream and catchment | 4 |
| Geological Hazards | US 6365 | Demonstrate knowledge of geological hazards | Mass movement, Earthquakes, Tsunami | 3 |
| Geological Features in SW Pacific | AS21614 | Describe the geological history of an area in the SW Pacific | SW Dunedin Urban Area History, Field Trip, Rock Types, Maps | 3 |
| Individual Scientific investigation | AS90727 | Carry out a scientific investigation with guidance | Student choice from water quality options | 4 |
| Sustainability | AS90828 | Evaluate a planned personal action that contributes toward a sustainable future | Plants, Management, Propagation Design, Growing | 6 |
| Sustainability | AS90829 | Investigate the interrelationship between human and biophysical environment in relation to a sustainable future | NZ waterways, Plants, Nitrates Fertilisers, Sewage | 4 |
| Sustainability | AS90832 | Develop and justify a strategy for an organisation that will contribute to a sustainable future | Student development of a plan to help a local business, household, local council, government agency, NGO or school. | 5 |

Contact person

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