



Science

2SAGR Assessment Statement 2021

Course is endorsable

| Year : 12 | | Course : Agricultural Science | | | | Mr D Matthews | | | Total Credits : 32 | | |
|---|-----------------|-------------------------------|-------|---------|-----------|--|----------------------|----------------------------------|--------------------|-------|-------------------|
| This subject is for students interested in a career in Agriculture. Those students wishing to study Agriculture at Tertiary level should consider Chemistry as well. | | | | | | | | | | | |
| WHAT WILL I LEARN? | | | | | | | | | | | |
| <ul style="list-style-type: none"> · Agrichemical safety. · Changing Land Use in NZ. · Environmental impact of agricultural practices. · Handling & treatment of livestock. | | | | | | | | | | | |
| No | Standard Number | Version | Level | Credits | Lit / Num | Full Title | Method of Assessment | Assessment Opportunities Offered | Approximate Date | Grade | Teacher Signature |
| 1 | 91293 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.5 - Demonstrate understanding of livestock reproductive techniques in commercial | Assignment | 1 | 28/03/2021 | | |
| 2 | 91295 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.7 - Demonstrate understanding of interactions between livestock behaviour and NZ | Assignment | 1 | 9/04/2021 | | |
| 3 | 91298 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.10 - Report on the environmental impact of the production of a locally produced primary product | Assignment | 1 | 24/09/2021 | | |
| 4 | 19114 | 3 | 2 | 6 | | Assist with handling and treatment of livestock | Practical | 1 | 5/07/2021 | | |
| 5 | 2765 | 6 | 2 | 5 | | Plant trees or shrubs under close supervision | optional | 1 | 27/08/2021 | | |
| 6 | 27213 | 1 | 2 | 5 | | Identify and interpret agrichemical product information, and demonstrate knowledge of safety with agrichemicals | Assignment | 1 | 12/04/2021 | | |
| 7 | 91294 | 3 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.6 - Demonstrate understanding of how NZ commercial management practices | Exam | External | 30/11/2021 | | |

Qualifications - You can see what qualifications the school offers and what qualification(s) this course leads towards on the school's website. Also you can see the courses, pathways, requirements for certificate endorsement, exclusion list of standards, and details on credit inclusion.

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Moderated Assessment Results are generally available 3 school weeks after the assessment due date.



Science

2SBIO Assessment Statement 2021

Course is endorsable

Year : 12

Course : Biology

Mrs A Baxter

Total Credits : 22

We recommend this subject to students who are interested in finding out about how and why living organisms function and interact with one another as they do. At tertiary level this subject is closely connected to Chemistry. It is advised to consider biology in combination with chemistry.

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|----|-----------------|---------|-------|---------|---------------|---|----------------------|----------------------------------|------------------|-------|-------------------|
| 1 | 91158 | 2 | 2 | 4 | L1 Lit | Biology 2.6 - Investigate a pattern in an ecological community, with supervision | Assignment | 1 | 22/03/2021 | | |
| 2 | 91155 | 2 | 2 | 3 | L1 Lit | Biology 2.3 - Demonstrate understanding of adaptation of plants or animals to their way of life | Optional Assignment | 1 | 30/08/2021 | | |
| 3 | 91160 | 2 | 2 | 3 | | Biology 2.8 - Investigate biological material at the microscopic level | Practical | 1 | 27/09/2021 | | |
| 4 | 91156 | 2 | 2 | 4 | L1 Lit, W Lit | Biology 2.4 - Demonstrate understanding of life processes at the cellular level | Optional Exam | External | 25/11/2021 | | |
| 5 | 91157 | 2 | 2 | 4 | L1 Lit, W Lit | Biology 2.5 - Demonstrate understanding of genetic variation and change | Exam | External | 25/11/2021 | | |
| 6 | 91159 | 2 | 2 | 4 | L1 Lit | Biology 2.7 - Demonstrate understanding of gene expression | Exam | External | 25/11/2021 | | |

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Science

2SCHE Assessment Statement 2021

Course is endorsable

Year : 12

Course : Chemistry

Ms N Singh

Total Credits : 20

Students will gain an understanding of fundamental material world concepts to prepare them for further science study. Students will carry out quantitative analysis and solve quantitative problems. They will gain an understanding of oxidation-reduction reaction, explain different types of bonding and structure in solids, study the functional group of organic chemistry and analyse chemical reactivity. They will learn the application of the above in the real world by having hands on activities such as practicals, experiments and demonstrations. Students who wish to take Level 3 Chemistry, should take this course.

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|----|-----------------|---------|-------|---------|-----------|--|----------------------|----------------------------------|------------------|-------|-------------------|
| 1 | 91161 | 3 | 2 | 4 | Num | Chemistry 2.1 - Carry out quantitative analysis | Practical | 1 | 21/06/2021 | | |
| 2 | 91167 | 2 | 2 | 3 | | Chemistry 2.7 - Demonstrate understanding of oxidation-reduction | Test | 2 | 15/03/2021 | | |
| 3 | 91165 | 2 | 2 | 4 | L1 Lit | Chemistry 2.5 - Demonstrate understanding of the properties of selected organic compounds | Exam | External | 19/11/2021 | | |
| 4 | 91166 | 2 | 2 | 4 | L1 Lit | Chemistry 2.6 - Demonstrate understanding of chemical reactivity | Exam | External | 19/11/2021 | | |
| 5 | 91164 | 2 | 2 | 5 | L1 Lit | Chemistry 2.4 - Demonstrate understanding of bonding, structure, properties and energy changes | Exam | External | 19/11/2021 | | |

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Science

2SGEN Assessment Statement 2021

Course is endorsable

Year : 12

Course : Level 2 General Science

Miss M Ashford

Total Credits : 18

Students will develop an understanding of the causes of natural hazards using examples around Aotearoa such as the Tarawera eruption. Students will describe how and why genetic variation and change occurs, they will explain biological processes that affect gene expression. Students will carry out a chemistry titration for quantitative analysis of chemicals. Through experimental observation students will gain an understanding of organic chemistry and reactions. This course provides a pathway for students who wish to continue a broad science learning.

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|----|-----------------|---------|-------|---------|---------------|---|----------------------|----------------------------------|------------------|-------|-------------------|
| 1 | 91154 | 2 | 2 | 3 | L1 Lit | Biology 2.2 - Analyse the biological validity of information presented to the public | Assignment | 1 | 12/06/2021 | | |
| 2 | 91167 | 2 | 2 | 3 | | Chemistry 2.7 - Demonstrate understanding of oxidation-reduction | Test | 2 | 19/03/2021 | | |
| 3 | 91189 | 2 | 2 | 4 | L1 Lit | Earth and Space Science 2.3 - Investigate geological processes in a New Zealand locality | Assignment | 1 | 22/05/2021 | | |
| 4 | 91165 | 2 | 2 | 4 | L1 Lit | Chemistry 2.5 - Demonstrate understanding of the properties of selected organic compounds | Exam | External | 19/11/2021 | | |
| 5 | 91157 | 2 | 2 | 4 | L1 Lit, W Lit | Biology 2.5 - Demonstrate understanding of genetic variation and change | Exam | External | 25/11/2021 | | |

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Science

2SHOR Assessment Statement 2021

Course is endorsable

Year : 12

Course : Horticulture

D Matthews

Total Credits : 50

This subject is for students interested in a career in Horticulture. Those students wishing to study Horticulture at Tertiary level should consider Biology as well. Each topic(AS) has its own terminology. You will be introduced to each topic separately:- the terminology and then the Horticulture concepts and processes in each topic.

WHAT WILL I LEARN?

- Practical Investigation.
- Environmental impact.

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|----|-----------------|---------|-------|---------|-------------|--|----------------------|----------------------------------|------------------|-------|-------------------|
| 1 | 91289 | 2 | 2 | 4 | Num, L1 Lit | Agricultural and Horticultural Science 2.1 - Carry out an extended practical agricultural or horticultural investigation | Assignment | | 15/04/2021 | | |
| 2 | 21027 | 4 | 2 | 10 | | Plant and maintain displays of bedding plants or bulbs or herbaceous perennials under close supervision | Practical | | 18/10/2021 | | |
| 3 | 91292 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.4 - Demonstrate understanding of how management practices influence plant growth and development in | Assignment | | 27/09/2021 | | |
| 4 | 91296 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.8 - Produce a landscape plan | Assignment | | 3/07/2020 | | |
| 5 | 27213 | 1 | 2 | 5 | | Identify and interpret agrichemical product information, and demonstrate knowledge of safety with agrichemicals | Assignment | | 12/06/2020 | | |
| 6 | 29506 | 1 | 2 | 5 | | Propagate plants by cuttings under close supervision | Practical | | 20/08/2021 | | |
| 7 | 2765 | 6 | 2 | 5 | | Plant trees or shrubs under close supervision | optional | | 27/08/2021 | | |

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Science

2SHOR Assessment Statement 2021

Course is endorsable

| Year : 12 | | Course : Horticulture | | | | D Matthews | | | Total Credits : 50 | | |
|---|-----------------|-----------------------|-------|---------|-----------|---|----------------------|----------------------------------|--------------------|-------|-------------------|
| <p>This subject is for students interested in a career in Horticulture. Those students wishing to study Horticulture at Tertiary level should consider Biology as well. Each topic(AS) has its own terminology. You will be introduced to each topic separately:- the terminology and then the Horticulture concepts and processes in each topic.</p> <p>WHAT WILL I LEARN?</p> <ul style="list-style-type: none"> Practical Investigation. Environmental impact. | | | | | | | | | | | |
| No | Standard Number | Version | Level | Credits | Lit / Num | Full Title | Method of Assessment | Assessment Opportunities Offered | Approximate Date | Grade | Teacher Signature |
| 8 | 29508 | 1 | 2 | 5 | | Sow seeds and monitor germination and emergence under close supervision | Practical | | 23/07/2021 | | |
| 9 | 91291 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.3 - Demonstrate understanding of advanced plant propagation techniques used for commercial production | Assignment | | 30/08/2021 | | |
| 10 | 91290 | 2 | 2 | 4 | L1 Lit | Agricultural and Horticultural Science 2.2 - Demonstrate understanding of techniques used to modify physical factors of the environment for NZ plant production | Assignment | External | 30/11/2021 | | |

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Science

2SPHY Assessment Statement 2021

Course is endorsable

| | | | |
|-----------|------------------|----------------|--------------------|
| Year : 12 | Course : Physics | Miss M Ashford | Total Credits : 22 |
|-----------|------------------|----------------|--------------------|

This subject would appeal to those students who have mathematical ability and are interested in finding out how things work.

WHAT WILL I LEARN?

- Physics formula, how these are applied.
- Explaining how "things work".
- How this can be applied to the real world.

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|----|-----------------|---------|-------|---------|-------------|---|----------------------|----------------------------------|------------------|-------|-------------------|
| 1 | 91172 | 2 | 2 | 3 | L1 Lit | Physics 2.5 - Demonstrate understanding of atomic and nuclear physics | Test | 1 | 3/04/2021 | | |
| 2 | 91169 | 2 | 2 | 3 | L1 Lit | Physics 2.2 - Demonstrate understanding of physics relevant to a selected context | Optional | 1 | 18/09/2021 | | |
| 3 | 91170 | 2 | 2 | 4 | Num, L1 Lit | Physics 2.3 - Demonstrate understanding of waves | Exam | External | 8/11/2021 | | |
| 4 | 91171 | 2 | 2 | 6 | Num, L1 Lit | Physics 2.4 - Demonstrate understanding of mechanics | Exam | External | 8/11/2021 | | |
| 5 | 91173 | 2 | 2 | 6 | Num, L1 Lit | Physics 2.6 - Demonstrate understanding of electricity and electromagnetism | Exam | External | 8/11/2021 | | |

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Science

2SSCE Assessment Statement 2021

Course is endorsable

Year : 12

Course : Earth Science

Mrs S Wild

Total Credits : 24

This subject is recommended for students intending to study geology, environmental science, marine studies, or any science based degree. Skills include being able to research and write scientific reports, investigate and complete a field study.

| No | Standard Number | Version | Level | Credits | Lit / Num | Full Title | Method of Assessment | Assessment Opportunities Offered | Approximate Date | Grade | Teacher Signature |
|----|-----------------|---------|-------|---------|-------------|---|----------------------|----------------------------------|------------------|-------|-------------------|
| 1 | 91187 | 2 | 2 | 4 | Num, L1 Lit | Earth and Space Science 2.1 - Carry out a practical Earth and Space Science investigation | Investigation | 2 | 19/03/2021 | | |
| 2 | 91188 | 2 | 2 | 4 | L1 Lit | Earth and Space Science 2.2 - Examine an Earth and Space Science issue and the validity of the information communicated to the public | Assignment | 2 | 09/07/2021 | | |
| 3 | 91189 | 2 | 2 | 4 | L1 Lit | Earth and Space Science 2.3 - Investigate geological processes in a New Zealand locality | Assignment | 1 | 16/04/2021 | | |
| 4 | 91190 | 2 | 2 | 4 | L1 Lit | Earth and Space Science 2.4 - Investigate how organisms survive in an extreme environment | Assignment | 2 | 09/07/2021 | | |
| 5 | 91191 | 2 | 2 | 4 | L1 Lit | Earth and Space Science 2.5 - Demonstrate understanding of the causes of extreme Earth events in New Zealand | Exam | External | 15/11/2021 | | |
| 6 | 91192 | 2 | 2 | 4 | L1 Lit | Earth and Space Science 2.6 - Demonstrate understanding of stars and planetary systems | Exam | External | 15/11/2021 | | |

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