



# Course Outline

## EDGDS6143 SENIOR SCIENCE CURRICULUM 2

**Title:** SENIOR SCIENCE CURRICULUM 2

**Code:** EDGDS6143

**School / Division:** School of Education

**Level:** Advanced

**Pre-requisites:** (EDGDS6015) (TD773)

**Co-requisites:** Nil

**Exclusions:** (EDGDS6116) (TD774)

**Progress Units:** 15

**ASCED Code:** 070301

### Objectives:

After successfully completing this course, students should be able to:

#### Knowledge:

- Demonstrate a sound knowledge of the VCE Study Designs in Biology, Chemistry or Physics, particularly in Units 1 and 4;
- Continue to display a cohesive knowledge of the appropriate biological or physical sciences, and how they interact in effective teaching;
- Demonstrate good understandings of the rationale, methodology and teaching techniques relevant to VCE Biology, Chemistry or Physics
- Design detailed teaching plans for Units 2 and 4 and within the unit framework design lesson plans, unit plans and area of study plans which integrate a range of activities, resources, and materials to support learning, including the use of ICT and other learning technologies;
- Continue to understand and develop the links between effective planning, teaching, and assessment areas, specifically school assessed coursework in Unit 4.

#### Skills:

- Devise valid methods for assessment in VCE Units 2 and 4, in line with VCE guidelines for Biology, Chemistry or Physics;
- Show further skill development in the teaching of Biology, Chemistry or Physics, using theoretical frameworks and practical ability to produce effective learning for a wide range of students;
- Understand the rationale for school assessed coursework in Units 3 and 4 and begin to develop skills in design, implementation, marking, and reporting of SAC tasks;
- Be skilled communicators who can effectively articulate and justify their practices.

#### Values:



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- Be flexible and adapt to change through knowing how to learn;
- Be equipped with the skills, motivation and confidence to engage in continuous learning, in order to meet the challenges of a changing world;
- Be aware of generally accepted norms of ethical behaviour in the teaching profession and act in a socially responsible manner in the workplace and other settings;
- Be engaged and socially responsible citizens.

### Content:

Discussion of methodology and teaching techniques in VCE Biology, Chemistry or Physics including course development and assessment issues;

Topics may include:

- Specific structure and content in VCE Units 1, 2, 3 and 4 in Biology, Chemistry or Physics;
- Discussion of methodology and teaching techniques in VCE Biology, Chemistry or Physics including course development and assessment issues;
- Further consideration of general issues of assessment at VCE level;
- Examinations in Unit 4 Biology, Chemistry or Physics;
- Visits to schools where practising teachers of Units 2 and 4 in Biology, Chemistry or Physics discuss content, teaching approaches and assessment issues;
- Integration of this course with teaching rounds - preparation and post round reviews with individuals.

### Learning Tasks & Assessment:

Learning Task	Assessment	Weighting
Preparation of a course for VCE Unit 2 Biology, Chemistry or Physics.	The course will show main areas of content, in a sequential manner, together with examples of possible learning activities, knowledge and skills, assessment tasks and uses of information technology.	40- 60%
School assessed course Work in VCE Unit 4 Biology, Chemistry or Physics.	Full definition of the tasks used to measure student level of achievement in SAC exercises, and discussion of issues related to marking of student work.	40- 60%
Teaching a conceptually difficult content area in Biology, Chemistry or Physics Units 1- 4.	Identification of a content area which will be conceptually difficult, planning teaching methods and strategies to address problems, and developing effective student learning	15- 20%

### Adopted Reference Style:

APA



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## Library Website:

[http://ww.ballarat.edu.au/aasp/student/learning\\_support/generalguide/](http://ww.ballarat.edu.au/aasp/student/learning_support/generalguide/)

## Handbook Summary:

Students will develop confidence and competence in teaching either physics, chemistry or biology at VCE level. They will develop skills in course and unit planning, assessment and reporting.