



Course Outline

EDGDS6015 SENIOR SCIENCE CURRICULUM 1

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| Title: | SENIOR SCIENCE CURRICULUM 1 |
| Code: | EDGDS6015 |
| Formerly: | TD773 |
| School / Division: | School of Education |
| Level: | Advanced |
| Pre-requisites: | Required level of undergraduate study in discipline as specified by VIT |
| Co-requisites: | EDGDS 6013 Science Curriculum 1 |
| Exclusions: | (TD773) |
| 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 3.
- display a solid knowledge of the appropriate biological or physical sciences, relation to educational contexts, and how they interact in effective teaching.
- demonstrate developing understandings of the rationale, methodology and teaching techniques relevant to VCE Biology, Chemistry or Physics, and how these subjects relate to the teaching of junior science.
- show developing knowledge of resources relevant to the teaching of Biology, Chemistry and Physics at VCE level.
- understand the links between effective planning, teaching, and assessment areas.

Skills:

- devise valid methods for assessment in VCE Units 1 and 3, in line with VCE guidelines for Biology, Chemistry or Physics.
- show developing skills in the teaching of Biology, Chemistry or Physics, using theoretical frameworks and practical ability to produce effective learning for a wide range of students.
- use a variety of technologies in the classroom in order to assist learning.
- be skilled communicators who can effectively articulate and justify their practices

Values:

- flexible and adapt to change through knowing how to learn.



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- equipped with the skills, motivation and confidence to engage in continuous learning, in order to meet the challenges of a changing world.
- 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.
- engaged and socially responsible citizens.

Content:

Topics may include:

- The Victorian Certificate of Education - structure, role of VCAA assessment
- specific structure and content in VCE units 1,2,3, 4 in Biology, Chemistry or Physics
- focus in this course is on Units 1 and 3 with Units 2 and 4 addressed in EDGDS 6116 in Teaching Period 3
- discussion of methodology and teaching techniques in VCE Biology, Chemistry or Physics with particular focus on laboratory work,
- demonstrations, safety in all areas, activity based learning and classroom management
- visits to schools where practising teachers of Units 1 and 3 in Biology, Chemistry or Physics discuss content, teaching approaches and assessment areas
- evaluation and assessment issues at VCE level - issues at school level for Unit 1 and school assessed coursework introduction at Unit 3
- integration of this course with teaching rounds - lesson planning, preparation and post round discussion
- examinations (VCAA) in Biology, Chemistry, Physics

Learning Tasks & Assessment:

| Learning Task | Assessment | Weighting |
|---|---|-----------|
| School based exercise. Data to be gathered on the first block teaching round. | (i) Assignment based on observation of VCE classes (ii) Exercises related to demonstrations, practical exercises and activities. (iii) School assessment tasks at VCE level - relationship to Study Designs | 40 - 60% |
| . Assessment tasks for Unit 1 Biology/Chemistry/Physics | Rationale for design/selection/ Implementation of assessment tasks | 40% - 60% |

Adopted Reference Style:

APA