

# Course Outline (Higher Education)

<b>School:</b>	School of Health and Life Sciences
<b>Course Title:</b>	MINERALS AND ENERGY
<b>Course ID:</b>	ENVGC3639
<b>Credit Points:</b>	15.00
<b>Prerequisite(s):</b>	(ENVGC1722)
<b>Co-requisite(s):</b>	Nil
<b>Exclusion(s):</b>	Nil
<b>ASCED Code:</b>	050999

**Description of the Course :**

This unit focuses on environmental management issues relevant to the extraction and production of minerals and energy; and the environmental impacts of these processes. Aspects covered include economic geology, recovery of resources, renewable resources, economic use of energy in conversion to products, basic economics of world trade including material balance, and policies for conservation of the environment as well as the resource. Study guides and a reader (including case studies) will be issued to guide the student in each topic area. Laboratory/tutorials/field work will enhance the theory. Students will be encouraged to develop and express their own views on strategies for alternative/renewable energy sources and materials for a sustainable future.

**Grade Scheme:** Graded (HD, D, C, etc.)

**Work Experience:**

No work experience: Student is not undertaking work experience in industry.

**Placement Component:** No

**Supplementary Assessment:** Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks..

**Program Level:**

AQF Level of Program						
	5	6	7	8	9	10
<b>Level</b>						
Introductory						
Intermediate						
Advanced			✓			

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ENVGC3639 MINERALS AND ENERGY

## Learning Outcomes:

On completion of this unit students will be able to:

1. Describe mechanisms for deposition, distribution and discovery of resources;
2. Discuss methods of recovery, upgrading, value-adding and the material balance of global trade;
3. Discriminate between good and poor conservation or resource management practises;
4. Present a balanced view of industrial and environmental needs;
5. Make value judgements on the importance of sustainable resource development;
6. Demonstrate awareness of factors leading to the need for implementing alternatives to mineral and energy resources and plan effectively for future needs.

## Course Content:

## Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
Examination	Examination	Examination	50%
Assignment	Assignment	Assignment	30%
Laboratory-field work	Laboratory-field work	Laboratory-field work	20%

## Adopted Reference Style: