Unit Outline
ECON6018 Mineral and Energy Economics Capstone
Semester 2, 2016

Unit study package code: ECON6018
Mode of study: Internal
Tuition pattern summary: Note: For any specific variations to this tuition pattern and for precise information refer to the Learning Activities section.
Individual Study: 1 x 40 Hours Once-only
Block Teaching: 5 x 8 Hours Once-only
This unit does not have a fieldwork component.

Credit Value: 50.0
Pre-requisite units: Nil
Co-requisite units: Nil
Anti-requisite units: Nil
Result type: Grade/Mark
Approved incidental fees: Information about approved incidental fees can be obtained from our website. Visit fees.curtin.edu.au/incidental_fees.cfm for details.

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Learning Management System: Blackboard (lms.curtin.edu.au)

Acknowledgement of Country
We respectfully acknowledge the Indigenous Elders, custodians, their descendants and kin of this land past and present.

Syllabus
Through syndicate and individual research activities, along with guest lecturers from industry leaders this unit will focus on - the state of the Mining Cycle, globalization, mineral markets, socioeconomic impacts from the minerals and energy sector, the challenges of remote mining towns, feasibility analysis and career development reflections.
Introduction
This unit requires two principle activities from the student. These are the following: 1) student is to undertake an individual research project in the area of either economics, finance or management focusing on a topical issue in the broad field of mineral or energy economics; 2) student is to attend an intensive instruction session at the end of the enrolment period where they will present their individual research project.

Unit Learning Outcomes
All graduates of Curtin University achieve a set of nine graduate attributes during their course of study. These tell an employer that, through your studies, you have acquired discipline knowledge and a range of other skills and attributes which employers say would be useful in a professional setting. Each unit in your course addresses the graduate attributes through a clearly identified set of learning outcomes. They form a vital part in the process referred to as assurance of learning. The learning outcomes tell you what you are expected to know, understand or be able to do in order to be successful in this unit. Each assessment for this unit is carefully designed to test your achievement of one or more of the unit learning outcomes. On successfully completing all of the assessments you will have achieved all of these learning outcomes.

Your course has been designed so that on graduating we can say you will have achieved all of Curtin’s Graduate Attributes through the assurance of learning process in each unit.

<table>
<thead>
<tr>
<th>On successful completion of this unit students can:</th>
<th>Graduate Attributes addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Assess roles of stakeholder groups in mineral and/or energy sectors</td>
<td><img src="image1" alt="Graduate Attributes" /></td>
</tr>
<tr>
<td>2 Determine and evaluate the impact of globalisation on the mineral and/or energy sector</td>
<td><img src="image2" alt="Graduate Attributes" /></td>
</tr>
<tr>
<td>3 Examine and analyse international, regional and local socio-economic impacts of the mineral and/or energy sector</td>
<td><img src="image3" alt="Graduate Attributes" /></td>
</tr>
<tr>
<td>4 Create, develop and undertake a research project and effectively communicate the results to a target audience</td>
<td><img src="image4" alt="Graduate Attributes" /></td>
</tr>
</tbody>
</table>

Curtin’s Graduate Attributes

- **Apply discipline knowledge**
  - Thinking skills (use analytical skills to solve problems)
  - Information skills (confidence to investigate new ideas)

- **Communication skills**
  - Technology skills

- **International perspective (value the perspectives of others)**
  - Cultural understanding (value the perspectives of others)

- **Learning how to learn** (apply principles learnt to new situations) (confidence to tackle unfamiliar problems)
- **Professional Skills** (work independently and as a team) (plan own work)

Find out more about Curtin's Graduate attributes at the Office of Teaching & Learning website: [ctl.curtin.edu.au](http://ctl.curtin.edu.au)

Learning Activities

1) **Research Project**

   **Requirements**

   Each student will undertake an individual, self-guided study project that will comprise 55% of their overall grade for the Capstone unit. The presentation of this project, which will take place during the intensive session, will comprise an additional 15% of the overall grade. There are several requirements necessary for the successful completion of the individual project. They consist of the following:

   1) Submission of Pro-forma (No later than Friday August 5, 2016)
   2) Project proposal (due Friday August 26, 2016)
   3) Supervisor consultation throughout semester
   4) Project presentation (During intensive session)
5) Submission of final report

**The Pro-forma**

Master's program candidates typically nominate a potential project area for their work. At the beginning of the semester, each enrolled student should complete a pro-forma that broadly outlines the area of their project. This form can be found under "Unit Resources" on the accompanying BlackBoard site. Upon submission of the pro-forma, a student will be allocated a project supervisor. The Pro-forma is due by the end of the first week of the semester (Friday August 5, 2016).

**The Proposal**

Within the following 3 weeks, each student should work with their allocated supervisor to develop a clear statement of the dimensions and scope of the project. This proposal will outline the project requirements, and should be submitted both to the supervisor and the unit lecturer on or before Friday August 26, 2016. The project proposal should not exceed 1000 words, typed on A4 paper, and should be presented in a professional manner. The proposal must address the following areas:

1) Some background to the topic area explaining why it is of interest;
2) A statement of the specific issues to be addressed;
3) A brief statement of the literature to be reviewed;
4) The case study or research method(s) to be used;
5) The limitations of the project;
6) A proposed timetable; and
7) Whether or not the project will contain confidential information.

**Supervisor consultation**

During the semester, students should submit fortnightly progress reports to their Supervisor. If possible there should also be at least two(2) face-to-face meetings. The purpose of this contact and consultation is to encourage consistent progress to be made.

**The project presentation**

Students must deliver a concise project presentation during the intensive coursework session held near the end of the Semester. Oral presentations are not to exceed 15 minutes. Five minutes of discussion will follow each presentation. Each supervisor will grade the project presentation.

**Final Report**

The final report is due on the final day of the intensive session, and should be produced in a professional format on A4 paper with:

1) an appropriate title page;
2) a table of contents; and
3) sectioning;

to enhance its impact and readability. It should contain a suitable bibliography and you may use footnotes or endnotes as desired. To maintain appropriate academic standards, we require the Chicago author-date 16th edition referencing system to be used in the final report. The report is not to exceed 10,000 words in length.

These projects will be graded promptly, however students must wait until after the Board of Examiners meet to obtain their mark.

2) Intensive Session

The focus of the classroom session portion of the capstone unit is on bringing together several of the themes developed during the intensive coursework sessions of the MSc program. The range of topics covered also depends on the interests of the resident and visiting lecturers participating in the session. The final schedule will be made available to students in the weeks leading up to the intensive session.
During this intensive week, students will complete a syndicate project accounting for 30% of the total mark for the Capstone unit.

Learning Resources

Other resources

Resources for the Capstone Intensive session will be made available closer to the scheduled intensive week.

Assessment

Assessment schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Value %</th>
<th>Date Due</th>
<th>Unit Learning Outcome(s) Assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Project Report</td>
<td>55 percent</td>
<td>Week: Intensive Session Day: Monday November 21, 2016 Time: 0:00</td>
<td>1,2,4</td>
</tr>
<tr>
<td>Research Project presentation</td>
<td>15 percent</td>
<td>Week: Intensive Session Day: Monday to Thursday Time: 14:30 - 17:00</td>
<td>1,4</td>
</tr>
<tr>
<td>Case study</td>
<td>30 percent</td>
<td>Week: Intensive Session Day: Friday November 18, 2016 Time: 0:00</td>
<td>2,3,4</td>
</tr>
</tbody>
</table>

Detailed information on assessment tasks

1. The individual research project is a self-guided study to be undertaken in consultation with the students allocated supervisor. This assessment will be undertaken over the course of the semester leading up to the intensive session.

2. Each student will provide a concise 15 minute presentation of their individual research project. These presentations will be scheduled during the week of the intensive session.

3. The case study will be completed in groups during the intensive session. It will be distributed during the intensive session following the appropriate lecture.

Pass requirements

Students must complete all assessments, receiving a combined passing mark, to pass the Capstone Unit. Attendance at the Intensive Session is compulsory to pass this unit.

Fair assessment through moderation

Moderation describes a quality assurance process to ensure that assessments are appropriate to the learning outcomes, and that student work is evaluated consistently by assessors. Minimum standards for the moderation of assessment are described in the Assessment and Student Progression Manual, available from policies.curtin.edu.au/policies/teachingandlearning.cfm
Late assessment policy
This ensures that the requirements for submission of assignments and other work to be assessed are fair, transparent, equitable, and that penalties are consistently applied.

1. All assessments students are required to submit will have a due date and time specified on this Unit Outline.
2. Students will be penalised by a deduction of ten percent per calendar day for a late assessment submission (eg a mark equivalent to 10% of the total allocated for the assessment will be deducted from the marked value for every day that the assessment is late). This means that an assessment worth 20 marks will have two marks deducted per calendar day late. Hence if it was handed in three calendar days late and given a mark of 16/20, the student would receive 10/20. An assessment more than seven calendar days overdue will not be marked and will receive a mark of 0.

Assessment extension
A student unable to complete an assessment task by/on the original published date/time (eg examinations, tests) or due date/time (eg assignments) must apply for an assessment extension using the Assessment Extension form (available from the Forms page at students.curtin.edu.au/administration/) as prescribed by the Academic Registrar. It is the responsibility of the student to demonstrate and provide evidence for exceptional circumstances beyond the student's control that prevent them from completing/submitting the assessment task.

The student will be expected to lodge the form and supporting documentation with the unit coordinator before the assessment date/time or due date/time. An application may be accepted up to five working days after the date or due date of the assessment task where the student is able to provide an acceptable explanation as to why he or she was not able to submit the application prior to the assessment date. An application for an assessment extension will not be accepted after the date of the Board of Examiners' meeting.

Deferred assessments
If your results show that you have been granted a deferred assessment you should immediately check OASIS for details.

Supplementary assessments
Supplementary assessments are not available in this unit.

Reasonable adjustments for students with disabilities/health circumstances likely to impact on studies
A Curtin Access Plan (CAP) is a document that outlines the type and level of support required by a student with a disability or health condition to have equitable access to their studies at Curtin. This support can include alternative exam or test arrangements, study materials in accessible formats, access to Curtin’s facilities and services or other support as discussed with an advisor from Disability Services (disability.curtin.edu.au). Documentation is required from your treating Health Professional to confirm your health circumstances.

If you think you may be eligible for a CAP, please contact Disability Services. If you already have a CAP please provide it to the Unit Coordinator at the beginning of each semester.

Referencing style
The referencing style for this unit is Chicago.

More information can be found on this style from the Library web site: http://libguides.library.curtin.edu.au/referencing.

Copyright
© Curtin University. The course material for this unit is provided to you for your own research and study only. It is subject to copyright. It is a copyright infringement to make this material available on third party websites.
Academic Integrity (including plagiarism and cheating)

Any conduct by a student that is dishonest or unfair in connection with any academic work is considered to be academic misconduct. Plagiarism and cheating are serious offences that will be investigated and may result in penalties such as reduced or zero grades, annulled units or even termination from the course.

Plagiarism occurs when work or property of another person is presented as one’s own, without appropriate acknowledgement or referencing. Submitting work which has been produced by someone else (e.g. allowing or contracting another person to do the work for which you claim authorship) is also plagiarism. Submitted work is subjected to a plagiarism detection process, which may include the use of text matching systems or interviews with students to determine authorship.

Cheating includes (but is not limited to) asking or paying someone to complete an assessment task for you or any use of unauthorised materials or assistance during an examination or test.

From Semester 1, 2016, all incoming coursework students are required to complete Curtin’s Academic Integrity Program (AIP). If a student does not pass the program by the end of their first study period of enrolment at Curtin, their marks will be withheld until they pass. More information about the AIP can be found at: https://academicintegrity.curtin.edu.au/students/AIP.cfm

Refer to the Academic Integrity tab in Blackboard or academicintegrity.curtin.edu.au for more information, including student guidelines for avoiding plagiarism.

Information and Communications Technology (ICT) Expectations

Curtin students are expected to have reliable internet access in order to connect to OASIS email and learning systems such as Blackboard and Library Services.

You may also require a computer or mobile device for preparing and submitting your work.

For general ICT assistance, in the first instance please contact OASIS Student Support: oasisapps.curtin.edu.au/help/general/support.cfm

For specific assistance with any of the items listed below, please contact The Learning Centre: life.curtin.edu.au/learning-support/learning_centre.htm

- Using Blackboard, the I Drive and Back-Up files
- Introduction to PowerPoint, Word and Excel
Online Supplementation of this unit

This unit is supplemented in Blackboard, a web-based learning environment that is to be used in conjunction with face to face delivery of the unit. If you are new to online environment, we encourage you to look at the CBS Online section of the website at http://business.curtin.edu.au/schools/cgsb/current_students/studying_online/index.cfm

This website provides useful information about Blackboard. Should you require assistance of any kind, please make sure you direct your queries to the appropriate area in order to get the result you need quickly. For content-related issues, contact your Lecturer. For technical issues relating to your online unit, please fill in the online help form available from the above website.

Access to your online unit on Blackboard will become available once the study period has started. It is recommended that you access your online Blackboard unit through OASIS, your student portal at Curtin. You will find the Blackboard option located under the ‘My Studies’ tab. You can also use the direct link: http://www.lms.curtin.edu.au/. Should you choose to use this link, you will need to use your login and password which are exactly the same as for OASIS.

If you have not activated your OASIS logon, please go to http://www.oasis.curtin.edu.au and follow the prompts. If you are a new student, please note that to activate OASIS logon you have to know your student number, which is to be found on your letter of offer.

Scheduled CITS outages

Scheduled Maintenance occurs when Curtin Information Technology Services (CITS) takes one or more University systems offline for up to 12 hours to complete routine repairs. During these Scheduled Maintenance windows major maintenance may take place and may affect multiple systems. You should plan for limited or no access to Curtin systems and network, including the absence of internet connectivity.

You will be notified two weeks prior to the Scheduled Maintenance window with a detailed list of affected IT services and their associated outage windows. Notices about scheduled maintenance periods are posted in OASIS and will indicate which systems will be affected. When Blackboard is affected specifically, notices about upcoming outages will also be posted on the Blackboard login page. Please pay attention to these notices as they will affect your access to the system (thus your assessment submission!).

You may also refer to the following link for updates on maintenance work (scroll to the bottom of the screen for “Blackboard Maintenance”): http://cits.curtin.edu.au/support/scheduled_maintenance_service_availability.cfm

Submission of all Written Assignments through Turnitin

The majority of your written assessments will be submitted through Turnitin via Blackboard. Submission upload links are located in the ‘Assessment’ section on Blackboard within their respective assessment ‘folder’ (in most units). You will also be given the option to upload a draft of each assessment to Turnitin prior to your final submission. If you choose to upload a draft (referred to in Turnitin as a “Revision”), Turnitin will generate an Originality Report to help you pinpoint any referencing issues. Make good use of this feedback to improve your writing before uploading your final submission.

If you require further information about how to reference correctly, please visit the Library website (http://libguides.library.curtin.edu.au/content.php?pid=141214), book in to a Library workshop, or access the online Referencing module in the SUCCESS for CGB Students Blackboard site (a link to the SUCCESS site appears alongside the other Blackboard sites you have access to).

Assessment Guidelines

Marks for each assignment are posted into the Blackboard Grade Centre which is the University’s official repository for all grades. Whilst Grade Centre access is restricted to Curtin staff only (UC, Lecturers and LMS support personnel), students can view their grades via My Grades. The My Grades option is accessible off the main menu in all CGB Blackboard units.
This policy, taken from the University’s Assessment and Student Progression Policy, ensures requirements for submission of assignments (and other work) to be assessed are fair, transparent, equitable and that penalties are consistently applied.

Referencing Style

Students must use the Chicago author-date 16th edition referencing style when preparing assignments. More information can be found on this style from the Curtin Library website: http://libguides.library.curtin.edu.au/referencing

When using EndNote, the style system that should be used is Chicago 16th B Curtin.

Important Information for Students:

Please read the Current Students section of the CGSB website (http://business.curtin.edu.au/schools/cgsb/current_students/index.cfm) for further information on the following:

- unit availability
- timetables
- re-enrolment procedures
- fee information
- the CGSB Alumni Chapter, and
- Emergency Procedures

Any enquiries concerning your enrolment can be sent to currentstudents@gsb.curtin.edu.au

Enrolment

It is your responsibility to ensure that your enrolment is correct - you can check your enrolment through the eStudent option on OASIS, where you can also print an Enrolment Advice.

Student Rights and Responsibilities

It is the responsibility of every student to be aware of all relevant legislation, policies and procedures relating to their rights and responsibilities as a student. These include:

- the Student Charter
- the University’s Guiding Ethical Principles
- the University’s policy and statements on plagiarism and academic integrity
- copyright principles and responsibilities
- the University’s policies on appropriate use of software and computer facilities

Information on all these things is available through the University’s "Student Rights and Responsibilities" website at: students.curtin.edu.au/rights.
Student Equity

There are a number of factors that might disadvantage some students from participating in their studies or assessments to the best of their ability, under standard conditions. These factors may include a disability or medical condition (e.g. mental illness, chronic illness, physical or sensory disability, learning disability), significant family responsibilities, pregnancy, religious practices, living in a remote location or another reason. If you believe you may be unfairly disadvantaged on these or other grounds please contact Student Equity at eesi@curtin.edu.au or go to http://eesj.curtin.edu.au/student_equity/index.cfm for more information.

You can also contact Counselling and Disability services: http://www.disability.curtin.edu.au or the Multi-faith services: http://life.curtin.edu.au/health-and-wellbeing/about_multifaith_services.htm for further information.

It is important to note that the staff of the university may not be able to meet your needs if they are not informed of your individual circumstances so please get in touch with the appropriate service if you require assistance. For general wellbeing concerns or advice please contact Curtin's Student Wellbeing Advisory Service at: http://life.curtin.edu.au/health-and-wellbeing/student_wellbeing_service.htm

Recent unit changes

Students are encouraged to provide unit feedback through eVALUate, Curtin's online student feedback system. For more information about eVALUate, please refer to evaluate.curtin.edu.au/info/.

To view previous student feedback about this unit, search for the Unit Summary Report at https://evaluate.curtin.edu.au/student/unit_search.cfm. See https://evaluate.curtin.edu.au/info/dates.cfm to find out when you can eVALUate this unit.

Recent changes to this unit include:

The intensive session is being updated to include lectures on the most current topics within the Minerals and Energy sectors. The syndicate project is also being updated to reflect feedback from past students.
Program calendar

The Individual Project Pro-Forma is due on Friday August 5, 2016.
The Individual Project Proposal is due on Friday August 26, 2016.
Project Presentations will be held throughout the Intensive week (November 14-18, 2016), with the Final Report being due on Monday November 21, 2016).

Below is a sample timetable for the intensive session. The actual schedule will be updated as the semester progresses, based upon speaker availability, and finalized approximately 2 weeks prior to the intensive session.

<table>
<thead>
<tr>
<th>Day</th>
<th>Presenter</th>
<th>Proposed topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>Daniel Packey</td>
<td>Emerging Energy Issues</td>
</tr>
<tr>
<td></td>
<td>Bryan Maybee</td>
<td>State of the Mining Industry</td>
</tr>
<tr>
<td>Two</td>
<td>Cam McCuaig</td>
<td>Exploration Targeting Concepts, Trends and Practices</td>
</tr>
<tr>
<td>Three</td>
<td>Dudley Kingsnorth</td>
<td>Rare Earths</td>
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<tr>
<td></td>
<td>Peter Dyball</td>
<td>Labour Market Review</td>
</tr>
<tr>
<td>Four</td>
<td>Mark Woffenden</td>
<td>Advances in Technology</td>
</tr>
<tr>
<td></td>
<td>Graham Walker</td>
<td>Feasibility Studies</td>
</tr>
<tr>
<td>Five</td>
<td>Student body</td>
<td>Syndicate presentations</td>
</tr>
</tbody>
</table>