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**Date last update:** 13 February 2020  
**Changes made by:** Seher Ata  
**Revision number:** 1
1. INFORMATION ABOUT THE COURSE

<table>
<thead>
<tr>
<th>Course Code:</th>
<th>MINE8820</th>
<th>Term:</th>
<th>T1, 2020</th>
<th>Level:</th>
<th>PG</th>
<th>Units/Credits</th>
<th>6 UOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Name:</td>
<td>Mineral Processing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Convenor:</td>
<td>A/Prof Seher Ata</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact Details</td>
<td>School of Minerals and Energy Resources Engineering Room 159C, Old Main Building</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMAIL:</td>
<td><a href="mailto:s.ata@unsw.edu.au">s.ata@unsw.edu.au</a></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Phone:</td>
<td>+61 2 9385 7659</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact times</td>
<td>By appointment</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

1.1 Course Description

This is an introductory course in metallurgical processing, designed for students with no prior training in this area. Students are not expected to become expert practitioners in the field, but to learn enough about the concepts and processes to work effectively with metallurgists/mineral processing engineers in the field.

Topics covered include comminution, physical separation, classification, coal preparation, flotation, dewatering, leaching, CIP and solvent extraction. Some basic analytical tools and a wide range of metallurgical terms and concepts are covered.

Key sustainability issues are also examined briefly, including the drive to reduce energy use in crushing and grinding, reduce water usage across all areas of processing, and minimise environmental damage.

1.2 Course Completion

Course completion requires submission of all assessment items; failure to submit all assessment items can result in the award of an Unsatisfactory Failure (UF) grade for the Course.

1.3 Assumed Knowledge

This course assumes a student has knowledge of:

- basic knowledge of mineral processing terms and descriptions;
- some basic understanding of mining operations to follow the course effectively.

2 AIMS, LEARNING OUTCOMES AND GRADUATE ATTRIBUTES

2.1 Course Aims

This course aims to equip the student with knowledge of mineral processing unit operations normally associated with the production of metal ores and coal preparation. Knowledge of hydrometallurgy unit operations normally associated with the production of major metals (i.e. copper and gold) is also provided.

2.2 Learning Outcomes

At the conclusion of this course, students should be able to:

1. Describe the work that metallurgists and mineral process engineers do.
2. Describe the major issues in mineral and metallurgical processing.
3. Explain the implications of mineralogical characteristics for mineral processing requirements.
4. Define common mineral processing and metallurgical terms.
5. Interpret technical reports.
6. Conduct basic mass balance calculations involved in several unit operations from mineral processing to hydrometallurgy.
7. Describe commonly used mineral and metallurgical processes used in Australia in the following industries:
   - Base metals processing (copper)
   - Precious metals processing (CIP process for gold recovery)
   - Coal processing

2.3 Graduate Attributes

This course will contribute to the development of the following Graduate Attributes:
1. appropriate technical knowledge.
2. having advanced problem solving, analysis and synthesis skills with the ability to tolerate ambiguity.
3. awareness of opportunities to add value through engineering and the need for continuous improvement.
4. being able to work and communicate effectively across discipline boundaries.

3 REFERENCE RESOURCES

3.1 Reference Materials

7. Publications from Suppliers and Original Equipment Manufacturers.
3.2 Other Resources

- Guide to Authors, 2008. (Australasian Institute of Mining and Metallurgy; Melbourne).
- EndNote, software package available to UNSW students.
- New postgraduate course students are strongly advised to visit the above website, and complete the ELISE and ELISE Plus tutorials. These will help develop skills in finding, using and evaluating scholarly information.

The University and the Faculty provide a wide range of support services for students, including:

- UNSW Learning Centre ([http://www.lc.unsw.edu.au](http://www.lc.unsw.edu.au))
- Counselling support - [http://www.counselling.unsw.edu.au](http://www.counselling.unsw.edu.au)
- Library training and support services - [http://www.library.unsw.edu.au/](http://www.library.unsw.edu.au/)
- OnePetro – ([http://www.onepetro.org](http://www.onepetro.org))

3.3 Online Resources

Selected readings as well as other supporting material (e.g. course outline and lecture notes) will be made available on LMS.

Videos are often provided to students as a web stream within the Moodle learning management system. Videos are not available for download by students, unless approved by the Course Convenor and either the Undergraduate or Postgraduate Coursework Director. Special consideration can be provided for students to access videos off-line (e.g. working remotely). Please contact the Course Convenor for more information. Note that UNSW reserves the right to deliver videos as a web stream rather than off-line and cannot provide videos that are copyright from other providers.

Remember, UNSW librarians are usually happy to help you locate articles or make suggestions regarding possible material to help you in your academic work. You can also access basic online help at [http://www.library.unsw.edu.au/](http://www.library.unsw.edu.au/)

3.4 Report Writing Guide

The School has a report writing guide (RWG) available. A copy of this is available on the course Moodle site.
## 4.1 Learning Activities Summary

<table>
<thead>
<tr>
<th>UNSW Week</th>
<th>Date</th>
<th>Hrs</th>
<th>Topic</th>
<th>Content/Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>23 March</td>
<td>8.0</td>
<td>Introduction &amp; Liberation &amp; comminution</td>
<td>1.1 Course Introduction – Structure, Assessment, Lab Experiments, Moodle, etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.2 Mineral liberation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.3 Energy and size reduction theories</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.4 Size reduction equipment &amp; comminution circuits</td>
</tr>
<tr>
<td>6</td>
<td>24 March</td>
<td>8.0</td>
<td>Classification &amp; Physical separation &amp; Dewatering</td>
<td>2.1 Classification &amp; equipment; representing sizing data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.2 Physical separation (gravity, magnetic, electrostatic separation)</td>
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<td></td>
<td></td>
<td>2.3 Physical separation equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.4 Dewatering methods, equipment and flocculation</td>
</tr>
<tr>
<td>6</td>
<td>25 March</td>
<td>8.0</td>
<td>Flotation &amp; Coal preparation &amp; Mass balance</td>
<td>3.1 Froth flotation: introduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.2 Froth flotation: fundamentals; equipment; circuits; reagents; flotation kinetics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.3 Coal formation and ranking</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Coal preparation: Crushing; screening; dense media separation; flotation; washability curves</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.4 Metallurgical mass balances, grade &amp; recovery calculation</td>
</tr>
<tr>
<td>6</td>
<td>26 March</td>
<td>8.0</td>
<td>Laboratory sessions AVIE Chemical processing</td>
<td>4.1 Flotation and grinding / sieving lab Individual lab report</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.2 Virtual tour of a copper processing plant</td>
</tr>
<tr>
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<td></td>
<td>4.3 Hydrometallurgy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.4 Leaching in heaps &amp; tanks; SXEW circuits, CIP circuits</td>
</tr>
<tr>
<td>6</td>
<td>27 March</td>
<td>8.0</td>
<td>Oral Presentation &amp; Sustainability</td>
<td>5.1 Group presentation for a particular commodity</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.2 Sustainability issues: Energy; mine-to-mill; water; environment</td>
</tr>
</tbody>
</table>
5 COURSE ASSESSMENT

5.1 Assessment Summary

The assessment will be based on the three components as outlined in the below table.

All assessments are due 12 noon Sydney time on Monday of the week, unless otherwise indicated in the table below.

<table>
<thead>
<tr>
<th>Assessment task</th>
<th>Due date</th>
<th>Release date</th>
<th>Weight (%)</th>
<th>Assessment</th>
<th>Learning outcomes assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1.0</td>
<td>27 March</td>
<td>25 March</td>
<td>20</td>
<td>Group Presentation (20-25 min) Processing requirement for a particular commodity</td>
<td>1,3,7</td>
</tr>
<tr>
<td>A2.0</td>
<td>13 April</td>
<td>26 March</td>
<td>40 (20 each)</td>
<td>Lab Report 1: Grinding and Sieving Lab Report 2. Flotation A write-up of laboratory-based activities addressing key issues and data analysis Individual report</td>
<td>5,6,3</td>
</tr>
<tr>
<td>A3.0</td>
<td>27 April</td>
<td>23 March</td>
<td>40</td>
<td>Group Report (max. 5000 words) Major assignment Flowsheet design and development for a selection of commodity.</td>
<td>3,6,7</td>
</tr>
</tbody>
</table>

All the course materials and assignments will be available online through Moodle. Access to the Moodle site is via the Moodle icon on the MyUNSW homepage, or at https://moodle.telt.unsw.edu.au

Please bring smartphone, tablet or notebook computer with Wi-Fi connection to all classes for random on-line quizzes.

5.2 Assignment Requirements

Who
- **All assessment items must be submitted to the Course Convenor.** It must not be submitted directly to the student’s individual Project Supervisor.

When
- If not otherwise stated, the default deadline for submission of an assignment is 9:00am on Monday in the nominated week. If the Monday coincides with a Public Holiday, then the due date is the next business day in the nominated week.
- Prior to submission, students should read the School Policy on Assignment Submissions which can be viewed at: <www.mining.unsw.edu.au/information-about/our-school/policies-procedures-guidelines>.
- In particular, the student should make sure they have read and understood the:
  - Declaration of Academic Integrity;
  - Assignment Submission requirements detailed in the University Policies section of the Course Outline; and
• School Policy on Assignment Submission available on the School's website (the web address is given in the Course Outline). In particular note the requirement that only PDF documents should be uploaded and the required file naming convention.

Where
• Submissions must be made electronically through Turnitin in the LTMS unless otherwise stated. Students are strongly encouraged to submit their report through the Turnitin (plagiarism detection software) before due date to see how their assignment is composed with regards to cited works and original content. This will allow students to self-assess and ensure their assignment meets the School standards before final submission. An originality report with a score higher than 20% may be cause for concern about the originality of content and will be reviewed by the Student’s Project Supervisor for potential plagiarism. For further details see the section on University Policies for details on assignment submissions, late submissions and special consideration.

What
• The submission must be:
  o a single document in PDF format; and
  o prepared in the form of a formal report that includes a list of reference sources cited in the report, prepared in accordance with the report writing standards of the School as contained in the MEA Report Writing Guide for Mining Engineers. A copy can be obtained from the UNSW Bookshop or downloaded from the School webpage.

• Each submission must have appended:
  o to the front, a signed copy of the Student Declaration Form and Coversheet; and
  o to the end, a completed self-assessed copy of the Assessment Criteria. Copies of both documents are available for download from LTMS.

• It is strongly recommended when preparing the major assignment; students use the Report Template available from LTMS. Note: as this template already incorporates the required the Student Declaration Form, a student does not need to separately append a signed copy of coversheet to their assignment.

How
• The submitted document must be consistent with the following file naming convention: < FamilyNameInitials_CourseCode_AssignmentNumber.pdf >.

• A typical complaint filename would take the following form < SmithPD_MINE8820_A01.pdf > which elements correspond to:
  o Family name of student: Smith
  o Initial(s) of student: PD
  o Course Code: MINE8820
  o Assignment number: A01...as defined in the Course Outline for the assessment task
  o File format: PDF document

5.3 Assignment Attachments

Each assignment submitted for assessment must be attached with:

• an official School Coversheet at the front of the assignment; and
• the requisite Assessment Criteria form at the end of the assignment with the self-assessment completed by the student.

If either or both of these are not attached, then the assignment will be deemed non-compliant with the assessment requirements. A non-compliant submission may not be marked, and zero marks may
be awarded for that assessment item. In any case a minimum 5% of the total marks will be forfeited for that assignment.

6 ASSESSMENT CRITERIA

The assessment criteria provide a framework for you to assess your own work before formally submitting major assignments to your course convenor. Your course convenor will be using this framework to assess your work and as a way to assess whether you have met the listed learning outcomes and the graduate attributes for your program. We ask that you don’t use the assessment criteria guidelines as a checklist, but as a tool to assess the quality of your work. Your course convenor will also be looking at the quality, creativity and the presentation of your written assignment as they review the framework. Rubrics, wherever applicable, will be provided at the time of the assignment release.
### 6.1 Group Presentation

The assessment criteria that will be used in assessing Group Presentation is summarised in the following table.

#### Assessment Criteria – Group Presentation

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Excellent</th>
<th>Good</th>
<th>Satisfactory</th>
<th>Unsatisfactory</th>
<th>Poor</th>
<th>nil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ore mineralogy and Processing flowsheet</strong></td>
<td>• Provided comprehensive information required for development of a flowsheet for the given commodity</td>
<td>• Most information required for development of a flowsheet for the given commodity is provided</td>
<td>• Adequate information required for development of a flowsheet for the given commodity is provided</td>
<td>• Minimal information required for development of a flowsheet for the given commodity is provided</td>
<td>• Limited information required for development of a flowsheet for the given commodity is provided</td>
<td>• Hardly any information required for development of a flowsheet for the given commodity is provided</td>
</tr>
<tr>
<td><strong>Equipment used in processing</strong></td>
<td>• Provided comprehensive information on the operation and type/size of the equipment used in the processing flow sheet.</td>
<td>• Provided good information on the operation and type/size of the equipment used in the processing flow sheet.</td>
<td>• Provided reasonable information on the operation and type/size of the equipment used in the processing flow sheet.</td>
<td>• Provided only limited information on the operation and type/size of the equipment used in the processing flow sheet.</td>
<td>• Provided limited and confusing information on the operation and type/size of the equipment used in the processing flow sheet.</td>
<td>• Provided no information on the equipment selection and operation.</td>
</tr>
<tr>
<td>Location (water, transportion, energy)</td>
<td>Excellent justification of the selected location. Water, energy and transportation requirement are all considered</td>
<td>Excellent</td>
<td>Justification of the selected location is sound. Water, energy and transportation requirement are partly considered</td>
<td>Limited justification of the selected location. Water, energy and transportation requirement are not fully considered</td>
<td>Poor justification of the selected location. Water, energy and transportation requirement are not considered</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>10 9</td>
<td>8 7 6 5 4 3 2 1 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marketing &amp; commodity uses</th>
<th>Provided an excellent and comprehensive overview of the commodity uses</th>
<th>Provided a good overview of the commodity uses</th>
<th>Provided a reasonable overview of the commodity uses</th>
<th>Provided a limited overview of the commodity uses</th>
<th>Provided limited or confusing overview of the commodity uses</th>
<th>Provided no information on commodity use and marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 14</td>
<td>13 11 10 8 7 4 3 1 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Response to questions</th>
<th>Excellent and valid responses to questions</th>
<th>Appropriate and valid responses to questions</th>
<th>Adequate responses to questions</th>
<th>Barely appropriate and/or valid responses to questions</th>
<th>Inappropriate and invalid responses to questions</th>
<th>Unable to reasonably respond to questions</th>
<th>No time for questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 9</td>
<td>8 7 6 5 4 3 2 1 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Quality of presentation and delivery | Excellent balance in content and information that supplemented rather than overpowered the message of the presenter | Appropriate number of slides/visual aids | Slides easy to read with appropriately sized graphs, wording etc | Few minor errors | Good balance in content | Slides easy to read with appropriately sized graphs, wording etc | Few minor errors | Adequate balance of information in slides | Reasonably legible and mostly well designed | Some slides contained several minor errors in formatting, wording, sizing etc | Some slides difficult to read and/or too much content | Slides dominated the communication process | Several major errors/mistakes | Most slides were poorly designed | Message was often confusing | Many major errors/mistakes | Slides mostly illegible, confusing and/or containing many errors that distracted the audience from the main messages | An inappropriate number of slides/visual aids |
|-------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 10 9                                | 8 7 6 5 4 3 2 1 0                                                                               |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
6.2 Lab Practical Sessions

The laboratory schedule is deliberately designed to provide practical, hands-on exposure to the concepts conveyed in lectures after they are covered in class. You are required to maintain two lab sessions: Grinding & Sieving and Flotation. For both experiments, students will be required to work in group but submit the lab report individually. All students are expected to familiarise themselves with the practical session activities before they come to the lab. Laboratory manual and a booklet containing assessment criteria and Laboratory Practice and are available on the course Moodle.

6.3 Final Group Project

The assessment criteria and relative weighting that will be used in assessing the Final Project is summarised in the following table.

Assessment Criteria – Final Project

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Excellent</th>
<th>Good</th>
<th>Satisfactory</th>
<th>Unsatisfactory</th>
<th>Poor</th>
<th>nil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ore mineralogy and Processing flowsheet</td>
<td>Provided comprehensive information required for development of a flowsheet for the given commodity</td>
<td>Most information required for development of a flowsheet for the given commodity is provided</td>
<td>Adequate information required for development of a flowsheet for the given commodity is provided</td>
<td>Minimal information required for development of a flowsheet for the given commodity is provided</td>
<td>Limited information required for development of a flowsheet for the given commodity is provided</td>
<td>Hardly any information required for development of a flowsheet for the given commodity is provided</td>
</tr>
<tr>
<td></td>
<td>The processing method(s) is sound and fully justified.</td>
<td>The processing method(s) is sound and justified.</td>
<td>The processing method(s) is partially justified.</td>
<td>The processing method(s) is poorly justified.</td>
<td>The processing method(s) is poorly justified.</td>
<td>The processing method(s) is not justified.</td>
</tr>
<tr>
<td></td>
<td>The input and output streams, particle size, reagent type and (if applicable), solid concentration, mineralogy, grade etc. are all considered</td>
<td>The input and output streams, particle size, reagent type and (if applicable), solid concentration, mineralogy, grade etc. are considered</td>
<td>The input and output streams, particle size, reagent type and (if applicable), solid concentration, mineralogy, grade etc. are partly considered</td>
<td>The input and output streams, particle size, reagent type and (if applicable), solid concentration, mineralogy, grade etc. are partly considered</td>
<td>The input and output streams, particle size, reagent type and (if applicable), solid concentration, mineralogy, grade etc. are partly considered</td>
<td>The input and output streams, particle size, reagent type and (if applicable), solid concentration, mineralogy, grade etc. are hardly considered</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>34</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>20</td>
</tr>
<tr>
<td>Equipment used in processing</td>
<td>Provided comprehensive information on the operation and type/size of the equipment used in the processing flow sheet. Equipment selection is well-justified</td>
<td>Provided good information on the operation and type/size of the equipment used in the processing flow sheet. Equipment selection is justified</td>
<td>Provided reasonable information on the operation and type/size of the equipment used in the processing flow sheet. Equipment selection is not fully justified</td>
<td>Provided only limited information on the operation and type/size of the equipment used in the processing flow sheet. Equipment selection is partially justified.</td>
<td>Provided limited and confusing information on the operation and type/size of the equipment used in the processing flow sheet. Equipment selection is hardly justified.</td>
<td>Provided no information on the equipment selection and operation</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Location (water, transportation, energy)</td>
<td>Excellent justification of the selected location. Water, energy and transportation requirement are all considered</td>
<td>Justification of the selected location is sound. Water, energy and transportation requirement are considered</td>
<td>Justification of the selected location is reasonable. Water, energy and transportation requirement are partly considered</td>
<td>Limited justification of the selected location. Water, energy and transportation requirement are not fully considered</td>
<td>Poor justification of the selected location. Water, energy and transportation requirement are poorly considered</td>
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<td>Provided an excellent and comprehensive overview of the commodity uses</td>
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<td>• Poor concluding remarks about the project objectives and project plan</td>
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<td>Referencing</td>
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<td>Most listings in the References section were correct and in accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>Many errors in the References section and/or references were not correct and were not in accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>Most of the listings in the References section were incorrect and/or were not in accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>There were many references missing from the References section and/or it was largely incomplete.</td>
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<td>Majority of sources of information were referenced; and</td>
<td>Many listings in the References section were correct and in accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>Too little use of in-text citations and/or</td>
<td>Too many references had errors; and/or</td>
<td>There was no References section and/or</td>
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<td>All listings in the References section were correct and exactly in total accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>There was only one reference missing from the References section</td>
<td>Several instances of information not being properly referenced to identify source of information; and/or</td>
<td>Most references were not relevant to research topic; and/or</td>
<td>No in-text citation in main body of report of information sources; and/or</td>
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<td>There was only one reference missing from the References section</td>
<td>Many listings in the References section were correct and in accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>There were only a few references missing from the References section</td>
<td>Incorrect system of citing references was used; and/or</td>
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<td>Many listings in the References section were correct and in accord with ausimm referencing requirements as defined in the GTA and RWG; and</td>
<td>Incomplete bibliographic details provided for references; and/or</td>
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<td>Did not conform to ausimm referencing requirements as defined in the GTA and RWG; and/or</td>
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7 STUDYING A PG COURSE IN UNSW MINERALS AND ENERGY RESOURCES ENGINEERING

7.1 How We Contact You

At times, the School or your course convenors may need to contact you about your course or your enrolment. Your course convenors will use the email function within Moodle or we will contact you on your @student.unsw.edu.au email address.

We understand that you may have an existing email account and would prefer for your UNSW emails to be redirected to your preferred account. Please see these instructions on how to redirect your UNSW emails: https://www.it.unsw.edu.au/students/email/index.html

7.2 How You Can Contact Us

We are always ready to assist you with your inquiries. To ensure your question is directed to the correct person, please use the email address below for:

Enrolment or other admin questions regarding your program: https://unswinsight.microsoftcrmportals.com/web-forms/

Course inquiries: these should be directed to the Course Convenor.

7.3 Computing Resources and Internet Access Requirements

UNSW Minerals and Energy Resources Engineering provides blended learning using the on-line Moodle LMS (Learning Management System).

It is essential that you have access to a PC or notebook computer. Mobile devices such as smart phones and tablets may compliment learning, but access to a PC or notebook computer is also required. Note that some specialist engineering software is not available for Mac computers.

Mining Engineering Students: OMB G48/49
Petroleum Engineering Students: TETB

It is recommended that you have regular internet access to participate in forum discussion and group work. To run Moodle most effectively, you should have:

- broadband connection (256 kbit/sec or faster)
- ability to view streaming video (high or low definition UNSW TV options)

More information about system requirements is available at www.student.unsw.edu.au/moodle-system-requirements

7.4 Accessing Course Materials Through Moodle

Course outlines, support materials are uploaded to Moodle, the university standard Learning Management System (LMS). In addition, on-line assignment submissions are made using the assignment dropbox facility provided in Moodle. All enrolled students are automatically included in Moodle for each course. To access these documents and other course resources, please visit: www.moodle.telt.unsw.edu.au
7.5 Assignment Submissions

The School has developed a guideline to help you when submitting a course assignment.

We encourage you to retain a copy of every assignment submitted for assessment for your own record either in hardcopy or electronic form.

All assessments must have an assessment cover sheet attached.

7.6 Late Submission of an Assignment

Full marks for an assignment are only possible when an assignment is received by the due date. In fairness to those students who do meet the assignment due date and time, deductions will apply to submissions made after this time. Marks will be deducted by the Course Convenor at the following rates if not submitted by the due date:

- fifteen (15) percentile points of the maximum possible mark for the first week overdue or part thereof; and
- an additional five (5) percentile points for each week or part thereof thereafter.

For example, if a student submitted the Project Progress Report ten days after the due date and the unadjusted assignment mark was 68% then the final adjusted mark for the assignment would be 48% – that is 68% (raw mark) less 15% (1st week penalty less a further 5% (2nd week penalty).

We understand that at times you may not be able to submit an assignment on time, and the School will accommodate any fair and reasonable extension. We would recommend you review the UNSW Special Consideration guidelines as soon as possible: https://student.unsw.edu.au/special-consideration

7.7 Special Consideration

You can apply for special consideration through UNSW Student Central when illness or other circumstances interfere with your assessment performance. Sickness, misadventure or other circumstances beyond your control may:

- Prevent you from completing a course requirement,
- Keep you from attending an assessable activity,
- Stop you submitting assessable work for a course,
- Significantly affect your performance in assessable work, be it a formal end-of-semester examination, a class test, a laboratory test, a seminar presentation or any other form of assessment.

We ask that you please contact the Course Convenor immediately once you have completed the special consideration application, no later than one week from submission.

More details on special consideration can be found at: www.student.unsw.edu.au/special-consideration

7.8 Course Results

For details on UNSW assessment policy, please visit: www.student.unsw.edu.au/assessment

In some instances, your final course result may be withheld and not released on the UNSW planned
date. This is indicated by a course grade result of either:

- WD – which usually indicates you have not completed one or more items of assessment or there is an issue with one or more assignment; or
- WC – which indicates you have applied for Special Consideration due to illness or misadventure and the course results have not been finalised.

In either event it would be your responsibility to contact the Course Convener as soon as practicable but no later than five (5) days after release of the course result. If you don’t contact the convener on time, you may be required to re-submit an assignment or re-sit the final exam and may result in you failing the course. You would also have a NC (course not completed) mark on your transcript and would need to re-enroll in the course.

7.9 Students Needing Additional Support

The Student Equity and Disabilities Unit (SEADU) aims to provide all students with support and professional advice when circumstances may prevent students from achieving a successful university education. Take a look at their webpage: www.studentequity.unsw.edu.au/

7.10 Academic Honesty and Plagiarism

Your lecturer and the University will expect your submitted assignments are truly your own work. UNSW has very clear guidelines on what plagiarism is and how to avoid it. Plagiarism is using the words or ideas of others and presenting them as your own. Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. The University has adopted an educative approach to plagiarism and has developed a range of resources to support students. All the details on plagiarism, including some useful resources, can be found at www.student.unsw.edu.au/plagiarism.

All Mining Engineering students are required to complete a student declaration for academic integrity which is outlined in the assignment cover sheets. By signing this declaration, you agree that your work is your own original work.

If you need some additional support with your writing skills, please contact the Learning Centre or view some of the resources on their website: www.lc.unsw.edu.au/. The Learning Centre is designed to help you improve your academic writing and communication skills. Some students use the Centre services because they are finding their assignments a challenge, others because they want to improve an already successful academic performance.

7.11 Continual Course Improvement

At the end of each course, all students will have the opportunity to complete a course evaluation form. These anonymous surveys help us understand your views of the course, your lecturers and the course materials. We are continuously improving our courses based on student feedback, and your perspective is valuable.

Feedback is given via https://student.unsw.edu.au/myexperience and you will be notified when this is available for you to complete.

We also encourage all students to share any feedback they have any time during the course – if you have a concern, please contact us immediately.
ACADEMIC REQUIREMENTS
Before submitting this assignment, the student is advised to review:
• the assessment requirements contained in the briefing document for the assignment;
• the various matters related to assessment in the relevant Course Outline; and
• the Plagiarism and Academic Integrity website at <http://www.lc.unsw.edu.au/plagiarism/pintro.html> to ensure they are familiar with the requirements to provide appropriate acknowledgement of source materials.

If after reviewing this material there is any doubt about assessment requirements, then in the first instance the student should consult with the Course Convenor and then if necessary with the Director – Undergraduate Studies.

While students are generally encouraged to work with other students to enhance learning, all assignments submitted for assessment must be their entire own work and duly acknowledge the use of other person’s work or material. The student may be required to explain any or all parts of the assignment to the Course Convenor or other authorised persons. Plagiarism is using the work of others in whole or part without appropriate acknowledgement within the assignment in the required form. Collusion is where another person(s) assists in the preparation of a student’s assignment without the consent or knowledge of the Course Convenor.

Plagiarism and Collusion are considered as Academic Misconduct and will be dealt with according to University Policy.

STUDENT DECLARATION OF ACADEMIC INTEGRITY
I declare that:
• This assessment item is entirely my own original work, except where I have acknowledged use of source material [such as books, journal articles, other published material, the Internet, and the work of other student/s or any other person/s].
• This assessment item has not been submitted for assessment for academic credit in this, or any other course, at UNSW or elsewhere.

I understand that:
• The assessor of this assessment item may, for the purpose of assessing this item, reproduce this assessment item and provide a copy to another member of the University.
• The assessor may communicate a copy of this assessment item to a plagiarism checking service (which may then retain a copy of the assessment item on its database for the purpose of future plagiarism checking).

Student Signature: ___________________________ Date: ___________________________

Students are advised to retain a copy of this assessment for their records and submission should be made in accordance to the assessment details available on the course Moodle site.