



Faculty of Engineering

School of Minerals and Energy Resources Engineering

Undergraduate Course Outline

MINE3510

Mine Ventilation

Dr Guangyao Si

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1. INFORMATION ABOUT THE COURSE

Course Code:	MINE3510	Term:	T3, 2020	Level:	UG	Units/Credits	6 UOC
Course Name:	Mine Ventilation						
Course Convenor:	Dr Guangyao Si						
Contact Details	School of Minerals and Energy Resources Engineering OMB 159B	EMAIL:	g.si@unsw.edu.au				
		Phone:	+61 (2) 9385 5727				
Contact times	Contact times are scheduled for: <ul style="list-style-type: none">• Monday 1:00pm – 3:00pm, Old Main Building 151• Thursday 11:00pm – 1:00pm, Science & Engineering G07 Due to COVID-19, lectures will be delivered online.						

1.1. Course Description

This course details the attributes, knowledge, and techniques that are required to provide a safe underground working environment through sound ventilation practice.

1.2. Course Completion

Course completion requires:

- submission of **all assessment items**; failure to submit all assessment items will result in the award of an Unsatisfactory Failure (UF) grade for the Course.
- a student is **required to pass the final exam**. If a student achieves a mark of less than 40% in the final exam, then the student will be awarded an Unsatisfactory Fail (UF) in the course. Where a student achieves a mark in the range of 40 to 49% in the final exam, the student may sit a supplementary exam. Refer to *Course Results* in the *University Policies* section for further details.

1.3. Assumed Knowledge

This course assumes that students have a good understanding of mining terms and descriptions, have been exposed to both coal and metal underground mining methods and are familiar with mining development, operations and production.

1.4. Attendance

To pass this course it is expected that you will attend at least 80% of tutorials and lectures. *If your attendance is below 80% you will not be admitted to the final exam.* Attendance will be recorded when applicable. Normally, there is no make-up work for poor attendance. If you have misadventure or ill-health, please contact your course coordinator soon as possible. The attendance requirement is not meant to be punitive. It is included because participation is an important part of achieving the course outcomes.

2. AIMS, LEARNING OUTCOMES AND GRADUATE ATTRIBUTES

2.1. Course Aims

It is intended that the student will be able to acquire the knowledge and skills required to evaluate and analyse ventilation systems for both coal and metalliferous underground mines. Also it is intended that students will also be able to describe the ventilation measures required to control underground hazards.

2.2. Learning Outcomes

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

1. Describe and apply the principles of fluid flow to ventilation systems.
2. Describe and apply fan behaviour laws to ventilation systems
3. Design and develop a ventilation system for a mine.
4. Describe environmental hazards found in mines and outline the ventilation control measures that detect, monitor, minimise and/or manage these hazards
5. Demonstrate an awareness of the legislative requirements that may apply to the provision of ventilation in a mine.

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. ability for engineering design and creativity
4. being able to think and work individually and in teams
5. having HSEC consciousness
6. listening, influencing, motivating and communication skills
7. basic business and management skills
8. awareness of opportunities
9. being active life-long learners.

3. REFERENCE RESOURCES

3.1. Reference Materials

- Le Roux's Notes on Environmental Engineering.
- Subsurface Ventilation and Environmental Engineering, Malcolm J. McPherson, 1993
- Environmental Engineering In South African Mines
- Mine Fires In Australian Underground Coal Mines
- Spontaneous Combustion In Australian Underground Coal Mines.

3.2. Other Resources

- Learning Guide: Mining Research Project
- *MEA Report Writing Guide for Mining Engineers*. P Hagan and P Mort (Mining Education Australia (MEA)). (Latest edition available for download from the School website or a hardcopy version is available from the UNSW Bookshop)
- *Guide to Authors*. (Australasian Institute of Mining and Metallurgy: Melbourne) (Available for download from the AusIMM website)

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

- UNSW Learning Centre (<http://www.lc.unsw.edu.au>)
- Counselling support - <http://www.counselling.unsw.edu.au>
- Library training and support services - <http://www.library.unsw.edu.au/>

3.3. Online Resources

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

Additionally, the following web addresses should contain valuable information.

Web Address	Comment
http://www.mvssa.co.za/	Mine Ventilation Society Of South Africa
http://www.grc.org.au/01_cms/details.asp?ID=284	Queensland Mining Industry Health And Safety Conference Proceedings
http://www.legislation.nsw.gov.au/	New South Wales Legislation
http://www.legislation.qld.gov.au/Legislation.htm http://www.legislation.qld.gov.au/OQPChome.htm	Queensland Legislation
http://www.atns.net.au/biogs/A000360b.htm	WA legislation
http://www.msha.gov	Mine Safety Health Administration USA
http://www.ascc.gov.au/	National Occupational Health and Safety Commission
http://www.hse.gov.uk/mining/index.htm	Health and Safety Executive, Mines Inspectorate UK
http://www.nrm.qld.gov.au/resourcenet/mines/safety_health/index.html	Department of Natural Resources and Mines Qld
http://www.doir.wa.gov.au/mineralsandpetroleum/	Department of Minerals, Energy and Petroleum WA
http://www.dpi.nsw.gov.au/minerals	Department of Mineral Resources NSW
http://www.smenet.org/	Society for Mining and Metallurgy and Exploration

http://www.acarp.com.au/	Australian Coal Association Research Program
http://www.minerals.org.au	Minerals Council of Australia
http://www.nswmin.com.au	NSW Minerals Council
http://www.grc.org.au/	Queensland Mining Council
http://www.aspasa.co.za	Safety In Mines Research Advisory Council (South Africa) (Not a permanent site)
http://www.standards.com.au	Standards Association of Australia
http://www.acgih.org/	American Conference Of Government Hygienists
http://www.hse.gov.uk/	Health And Safety Executive UK
http://www.cdc.gov/niosh/homepage.html	National Institute of Occupational Safety Health USA

4. COURSE CONTENT AND LEARNING ACTIVITIES

4.1. Course content

UNSW Week	Date	Topic	Presenter
1	14 Sep	Course Introduction/Airflow	GS
	17 Sep	Fan/Fan Laws	GS
2	21 Sep	Tutorial 1- Airflow and Fan	GS
	24 Sep	Ventilation Services and Network Analysis	GS
3	28 Sep	Tutorial 2- Network	GS
	1 Oct	Mine Gases/ Gas Monitoring	GS
4	5 Oct	Public holiday	GS
	*8 Oct	Laboratory - Duct Resistance/Fan Characteristics	GS
5	**12 Oct	Ventsim Training	GS
	15 Oct	Tutorial 3- Gas / Mid-Term quiz	GS
6	19 Oct	Review mid-term quiz	GS
	22 Oct	Review Q&A session	GS
7	26 Oct	DPM/Dust	GS
	29 Oct	Tutorial 4- DPM/Dust	GS
8	2 Nov	Heat and Psychometric	GS
	5 Nov	Refrigeration/Tutorial 5	GS
9	9 Nov	Spontaneous Combustion	GS
	12 Nov	Gas Reservoir Characteristics, Gas Drainage	GS
10	16 Nov	Coal Mine Practice	GS
	19 Nov	Metal Mine Practice	GS

*Based on the student number in each group, this lab session may run outside normal teaching hours.

** Ventsim training session will last three hours from 12:00-3:00pm. Please arrange your time accordingly.

Total student effort hours: Approx. 150

(Note: The above indication of “student effort hours” is indicative only – It reflects the anticipated level of total student involvement with the course – either through accessing or participating in online materials and activities; private research; preparation of assignments. Individual students may find their level of involvement differs from this schedule.

5. COURSE ASSESSMENT

5.1. Assessment Summary

All assessments are due 9am Sydney time on Monday of the week, unless otherwise mentioned below.

Assessment task	Due date	Weight	Assessment	Learning outcomes assessed
A01	Ongoing	20%	Tutorials (to be submitted on the day in class)	1, 2, 3, 4
A02	Week6	10%	Mid-term quiz	1, 2, 3, 4, 5
A03	Week 6, 23 Oct	30%	Laboratory and Ventsim simulation	1, 2, 3, 4
A04	Week12-13	40%	Final Exam	1, 2, 3, 4, 5

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. Assessment 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 – this includes the Project Proposal, Annotated Bibliography and Project Progress Report.

When

- If not otherwise stated, **the default deadline for submission of an assignment is 9am 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.
- Early submission is required in cases where the student will otherwise be absent on the due date of submission, for example to attend the Student Mining Games, a graduate employment interview etc. – no extensions will be granted.
- Prior to submission, students should read the School Policy on *Assignment Submissions* which can be viewed at: www.engineering.unsw.edu.au/mining-engineering/what-we-do/about-the-school/school-general-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 Moodle unless otherwise stated. Turnitin is a plagiarism checking service that will retain a copy of the assessment item on its database for the purpose of future plagiarism checking.

What

- Submission requirements for all assignments are listed in Sections 4 and 7 of the *Course Learning Guide*.
- The submission must be:
 - a single document in PDF format; and
 - 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:
 - to the front, a signed copy of the Student Declaration Form and Coversheet; and
 - to the end, a completed self-assessed copy of the Assessment Criteria.Copies of both documents are available for download from Moodle.
- It is **strongly recommended** when preparing the major assignment; students use the **Report Template** available from Moodle. 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_MINE4440_A01.pdf* > which elements correspond to:
 - Family name of student: Smith
 - Initial(s) of student: PD
 - Course Code: MINE4440
 - Assignment number: A01...as defined in the Course Outline for the assessment task *Project Proposal*
 - File format: PDF document

5.3. Penalties for Non-Compliant Submission

A submission that is non-compliant with the School Policy on *Assignment Submission* and/or requirements as contained in this Course Outline may not be marked and/or penalty marks subtracted from the assignment mark for non-compliance.

Some examples of a non-compliant assignment include that the assignment submission:

- is not a single PDF document. *Penalty for non-compliance*: assignment not marked.
- does not contain a signed copy of the *Student Declaration Statement*. *Penalty for non-compliance*: assignment not marked.
- is not fully consistent with the designated file naming convention as listed above and defined as Item #6 in the School Policy on electronic submission. For example, a file name such as < *ProjectProposal.pdf* > is NOT compliant. *Penalty for non-compliance*: 10 marks.

- does not have appended at the end of the assignment a completed self-assessment by the student of the assignment using the official *Assessment Criteria* template. *Penalty for non-compliance: 10 marks.*

5.4. 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 following assessment criteria provide a framework for students when preparing the laboratory reports in the course as well as a guideline for assessors when marking an assignment. The student is advised to review the relevant framework before undertaking their assignment.

The criteria listed for each item of assessment and the descriptions contained therein are not intended to be prescriptive nor is it an exhaustive list. Rather it should be viewed as a framework to guide the student as to the type of information and depth of coverage that is expected to be evident in a submission for assessment; the framework illustrates for example what would distinguish an excellent achievement from a poor achievement.

The student should be cognisant that a range of factors is often being assessed in any one assignment; not just whether the final results are numerically correct. Consideration is given to other relevant elements that contribute to the *Learning Outcomes* of the course as well as the *Graduate Attributes* of the overall degree program.

The student is cautioned against merely using the assessment criteria as a checklist. When assessing an assignment, elements in the framework will be examined in terms of quality and creativity. Hence ensuring all the listed elements are merely covered in an assignment is often not sufficient in itself and will not automatically lead to full marks being awarded. Other factors such as how the student went about presenting information, how an argument was structured and/or the elements supporting a particular recommendation or outcome are also important.

Finally the framework can also be used to provide feedback to a student on their performance in an assignment. Periodically the criteria are reviewed and updated; consequently changes may be made from time to time to the framework to improve its effectiveness in achieving both these objectives.

Note: Reference to *RWG* in the assessment criteria refers to the *MEA Report Writing Guide*, and *GTA* to the *AusIMM Guide to Authors*.

A3.0: Assessment Criteria for Laboratory Report

Criteria	Excellent	Good	Satisfactory	Unsatisfactory	Poor	Nil				
Executive Summary (5%)	Provided a comprehensive summary of the project parameters and outcomes	Provided an acceptable summary of the project parameters and outcomes	Provided a limited summary of the project parameters and outcomes	Provided limited or poor summary of the project parameters and outcomes.	Provided a poor summary of the project parameters and outcomes.	No parameters and outcomes.				
	5	4	3	2	1	0				
Introduction (5%)	The introduction has a comprehensive list of defined objectives and methodology of the project or practical including discussion of the problem if appropriate	The introduction has an acceptable list of defined objectives and methodology of the project or practical including discussion of the problem if appropriate	The introduction has a limited list of defined objectives and methodology of the project or practical including discussion of the problem if appropriate	The introduction has a limited or poor list of defined objectives and methodology of the project or practical including discussion of the problem if appropriate	The introduction has a poor list of defined objectives and methodology of the project or practical including discussion of the problem if appropriate	No objectives and methodology of the project or practical including discussion of the problem if appropriate				
	5	4	3	2	1	0				
Theory (10%)	Provided a comprehensive record of applicable theory and assumptions made where necessary, with justification.	Provided an acceptable record of applicable theory and assumptions made where necessary, with justification.	Provided a limited record of applicable theory and assumptions made where necessary, with justification.	Provided an limited or poor record of applicable theory and assumptions made where necessary, with justification.	Provided poor record of applicable theory and assumptions made where necessary, with justification.	No record of applicable theory and assumptions made where necessary, with justification.				
	10	9	8	7	6	5	4	3	2	1
Project Tasks (30%)	Completed all tasks comprehensively and correctly	Completed most tasks comprehensibly and correctly	Completed some tasks correctly	Completed limited tasks correctly	Completed some tasks but not in a correct way	No task completed				
	30	26	25	10	19	13	12	7	6	1
Use of Course and Reference Material (25%)	Demonstrated comprehensive use of reference and course material where necessary, including spreadsheet calculations.	Demonstrated acceptable use of reference and course material where necessary, including spreadsheet calculations.	Demonstrated limited use of reference and course material where necessary, including spreadsheet calculations.	Demonstrated limited or poor use of reference and course material where necessary, including spreadsheet calculations.	Demonstrated poor use of reference and course material where necessary, including spreadsheet calculations.	No use of reference and course material where necessary, including spreadsheet calculations.				
	25	22	21	17	16	11	10	5	4	1
Conclusions & Recommendations (15%)	The analysis of the work conducted highlights your comprehension and shows insight into the significance of the results. The report concludes with a clear concise summary of the outcomes and includes qualification.	The analysis of the work conducted demonstrates some comprehension. The report concludes with a summary of outcomes.	The analysis of the work conducted demonstrates limited comprehension. The report concludes with some summary of outcomes.	The analysis of the work conducted demonstrates limited or no comprehension. The report concludes with a poor summary of outcomes.	The analysis of the work conducted demonstrates lack of comprehension. The report concludes with a poor summary of outcomes.	No conclusions drawn from the analysis.				
	15	13	12	10	9	7	6	4	3	1
Layout and Standard of Report (10%)	Excellent logical structure, physical layout and attention to detail. The report adheres to the MEA report writing guidelines. No or few spelling mistakes or grammatical errors.	Good logical structure and physical layout. The report adheres to the MEA report writing guidelines. No or few spelling mistakes or grammatical errors.	Acceptable structure and physical layout. The report adheres to the MEA report writing guidelines. Some spelling mistakes or grammatical errors. Some errors in referencing.	Unacceptable structure and physical layout. The report does not adhere to the MEA report writing guidelines. Numerous spelling mistakes or grammatical errors. Errors in referencing.	Very little structure and physical layout. The report does not adhere to the MEA report writing guidelines. Numerous spelling mistakes or grammatical errors. Errors in referencing.	Report has no layout and structure.				
	10	9	8	7	6	5	4	3	2	1

7. STUDYING A UG 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.microsoftcrmpartals.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 a 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.

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 – see following section.

In the case of the Project Report, penalty marks will be applied at the following rate if submitted after the due date: five (5) percentile points of the maximum possible mark for each day or part thereof that the assessment is overdue.

For example if a student submitted the Project Report five days after the due date and the unadjusted mark was 68% then the final adjustment mark for the assignment would be 43%; that is the raw mark of 68% less 25 percentile points (5 days @ 5 percentile points per day).

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.



School of Minerals and Energy Resources Engineering

Assessment Cover Sheet

Course Convenor: _____
 Course Code: _____ Course Title: _____
 Assignment: _____
 Due Date: _____
 Student Name: _____ Student ID: _____

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.