
SISAT

School of Information Systems & Technology
Faculty of Informatics

MCS9301 Information and Communication Security
Subject Outline
Spring Session 2009

Head of School –Associate Professor Peter Hyland, Student Resource Centre, Tel: (02) 4221 3606

GENERAL INFORMATION

Subject Coordinator

Telephone Number:

Email:

Location:

Dr Mark Freeman

4221 3223

mfreeman@uow.edu.au

39.214

Dr Freeman's consultation times during session:

Day

Monday

Wednesday

Time

12:30 – 14:30

13:30 – 15:30

Subject Organisation

Session:

Credit Points

Contact hours per week:

Lecture Times & Location:

Tutorial Day, Time and Location can be found at:

Spring Session, Wollongong Campus

6 credit points

2 hr lectures, 2 hrs tut

Thursday 15:30 – 17:30 PM 14-G01

<http://www.uow.edu.au/student/timetables/index.html>

Students should check the subject's web site regularly as important information, including details of unavoidable changes in assessment requirements will be posted from time to time via e-Learning space <http://www.uow.edu.au/student/>. Any information posted to the web site is deemed to have been notified to all students.

Subject Description

This subject provides students with a real-world approach to Information and Communication Security Issues. Both managerial and technical aspects are addressed. The subject will cover the need for security, professional and regulatory considerations, security technology, physical security, information security, and personnel issues. Students will be required to engage in problem solving activities that apply the principles learned in the subject, and will also be required to acquire knowledge of current practice and technologies.

Subject Objectives

On successful completion of this subject, students will be able to:

1. Understand the significance of information security.
 2. Investigate and analyse security requirements.
 3. Design logical and physical security solutions.
 4. Know how to implement security programs in an organization
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Graduate Qualities

This subject will continue to the following graduate qualities:

- Informed
- Independent learners
- Effective communicators
- Responsible
- Team work

Further information can be found at:

<http://www.uow.edu.au/informatics/sisat/current/SubjectInformation/UOW051055.html>

Attendance Requirements:

It is the responsibility of students to attend all lectures/tutorials/labs/seminars/ practical work for subjects for which you are enrolled. It should be noted that the amount of time spent on each 6 credit point subject should be at least 12 hours per week, which includes lectures/tutorials/labs etc.

Satisfactory attendance is deemed by the University, to be attendance at approximately 80% of the allocated contact hours.

Attendance rolls will be kept for tutorials. If you are present for less than 80% and would have otherwise passed you need to apply for student academic consideration, otherwise a TF (technical fail) grade will be recorded.

Students **MUST** attend their **allocated** tutorial unless they have the written permission of the subject coordinator.

Method of Presentation:

In order to maximize learning outcomes, it is strongly recommended that students attend all lectures.

Lecture Schedule: A proposed Lecture schedule for the subject is as follows:

Week	Topic	Reading
1	Introduction, Subject Overview & Assessments	NO TUTORIAL Whitman Ch 1
2	Organisational Security Breaches	
3	Ecommerce Security Breaches	Whitman Ch 2 http://www.cert.org/
4	Security Tools, Techniques, Methods	Whitman Ch 6 & 7
5	Security Policies, Procedures, Frameworks	Whitman Ch 5 & 12 http://www.sans.org/resources/policies
6	Risk Analysis, Disaster Recovery, Emergency Management	Whitman Ch 4 http://www.sans.org/rr
7	Physical Security and Personnel	Whitman Ch 9 & 11
8	ICT Solutions to National Security	
9	Legal Repercussions	Whitman Ch 3
10	Ethical and Professional Issues	NO TUTORIAL
11	Social Implications	http://www.eff.org/
12	International Agreements	www.oecd.org/dataoecd/16/22/15582260.pdf
13	Futures – What Next? Exam Revision	Exam revision

Changes to the above schedule will be posted via e-Learning space <http://www.uow.edu.au/student/>. Any information posted to the web site is deemed to have been notified to all students.

Subject Materials:

Any readings/references are recommended only and are not intended to be an exhaustive list. Students are encouraged to use the library catalogue and databases to locate additional readings

Textbook(s):

Whitman, M. and H. Mattord (2009) Principles of Information Security 3rd Edition, Thomson, Canada.

Assessment:

This subject has the following assessment components.

ASSESSMENT ITEMS & FORMAT	% OF FINAL MARK	GROUP/ INDIVIDUAL	DUE DATE
1. Mini Presentation	5%	Individual	Presentation in Week 4 Tutorial (Documentation – hard copy in tutorial – article and critical summary, soft copy to be uploaded to UOW eLearning, Sunday 16 th August @ 2359hrs – critical summary only)
2. Security Policy – Case Study	20%	Individual	Week 8 (hard copy in tutorial, soft copy to be uploaded to UOW eLearning, Sunday 13 th September @ 2359hrs)
3. Group Report and Presentation	35%	Group	Week 11 (hard copy in tutorial, soft copy to be uploaded to UOW eLearning, Sunday 11 th October @ 2359hrs)
4. Final Examination	40%	Individual	Final Exam Period (TBA)

Notes on Assessment:

All assignments are expected to be completed independently. Plagiarism may result in a FAIL grade being recorded for that assignment.

Electronic Submission of Assessment Items:

Unless otherwise notified by the subject coordinator, all written assignments must be submitted electronically.

Submission of assessment items via email will not be accepted.

Other procedures for the submission of assessment items:

In addition to electronic submission students are required to submit assignments in hard copy to their tutor.

All assignments will be returned within 2 weeks of their submission.

- All work must be submitted in HARD COPY at the BEGINNING of tutorials.
- Soft copies of assessment items 1, 2 & 3 are required to be uploaded on UOW eLearning space by the due date. These assignments will be submitted to Turnitin.com for evaluation.
- Hard copies of assignments need to be identical to soft copies, otherwise they are considered late.
- All late work to be submitted personally to Dr Mark Freeman.
- All student academic consideration applications must be lodged through SOLS.
- Please check the UOW eLearning space discussion forum regularly for announcements.
- Assignments will be returned in your allocated tutorial.
- Individual contributions to group assignments may be assessed, and marks awarded appropriately.

1. Mini Presentation

During week 4 of class each student is required to give a three (3) minute talk to the class based on a current (within the last 12 months) online news article on an ICT security issue. A copy of the article and a 300 word critical summary is to be submitted at the completion of the presentation.

2. Security Policy – Case Study

Security policies for organizations are vital. However, many businesses have ill-defined, incomplete or no security policies whatsoever. Your task is to evaluate three (3) policies and provide recommendations on the completeness and appropriateness of each. If the policies are incomplete, you may provide a revision; if the policies are lacking, you may add to these. (2500 words, excluding policies)

You will be allocated a set of policies.

3. Group Report and Presentation

This assignment consists of 2 main parts.

- Group Report (4000 words) - 20%
- Group Presentation and Handout (15 minutes) - 15%

In groups of 4, you will complete a tender for the planning, development and installation of all security requirements on a new information system. Further details of the assessment will be provided in the week 1 lecture and on UOW eLearning.

On completion of the assignment, groups must complete and sign the group work checklist available on eLearning.

To be eligible for a Pass in this subject a student must achieve a mark of at least 50% in the Final Exam. Students who fail to achieve this minimum mark & would have otherwise passed will be given a TF (Technical Fail) for this subject.

Procedures for the return of assessment items:

Assessment items will be returned in tutorials.

Penalties for late submission of assessment items:

Penalties apply to all late work, except if student academic consideration has been granted. Late submissions will attract a penalty of 10% of the assessment mark. This amount is per day including weekends.

Work more than (5) days late will be awarded a mark of zero.

Tutorial/Lab Closure Policy

If for any reason, the number of students in a tutorial or lab falls below a sustainable enrolment level, as determined by the Head of School, tutorials/labs offered for that subject may be collapsed or deleted.

You will have to attend the new tutorials/lab if this closure affects the one you are attending.

We will endeavour to make this decision no later than Week 4 of session.

Supplementary Exams

Supplementary Exams will be dealt with in accordance with student academic consideration policy (<http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>) 9.2 Timing of Supplementary Exams.

While the School normally grants supplementary exams when the student does not sit the standard exam for an acceptable reason, each case will be assessed on its own merit and there is no guarantee a supplementary exam will be granted. If a supplementary exam is granted, you will normally be notified via SOLS Mail the time and date of this supplementary exam. You must follow the instructions given in the email message.

Please note that if this is your last session and you are granted a supplementary exam, be aware that your results will not be processed in time to meet the graduation deadline.

Student Academic Consideration Policy

The School recognises that it has a responsibility to ensure equity and consistency across its subjects for all students. Sometimes, in exceptional circumstances, students need to apply for student academic consideration in order to complete all assessable work.

The University applies strict criteria to the granting of student academic consideration. Before applying for student academic consideration, students should carefully read the University's policy which can be found at: <http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf>.

Plagiarism

When you submit an assessment task, you are declaring the following

1. It is your own work and you did not collaborate with or copy from others.
2. You have read and understand your responsibilities under the University of Wollongong's policy on plagiarism.
3. You have not plagiarised from published work (including the internet). Where you have used the work from others, you have referenced it in the text and provided a reference list at the end of the assignment.

Students must remember that:

Plagiarism will not be tolerated.

Students are responsible for submitting original work for assessment, without plagiarising or cheating, abiding by the University's policies on Plagiarism as set out in the University Handbook under University Policy Directory and in Faculty handbooks and subject guides. Plagiarism has led to the expulsion from the University.

Student Academic Grievance Policy

The School aims to provide a fair, equitable and productive learning environment for all its students. The Student Academic Grievance Policy seeks to support the achievement of this goal by providing a transparent and consistent process for resolving student academic grievances.

Any student who has a grievance over a result should obtain a Faculty of Informatics Appeal Against Decision or Action Affecting Academic Experience form from the Informatics Student Enquiry Centre. (<http://www.uow.edu.au/content/groups/public/@web/@inf/@faculty/documents/doc/uow017433.pdf>) The student should firstly take the form to the marker/lecturer to discuss the matter and, if the student is still not satisfied, s/he should take the next step as outlined on the form.

Once the grievance has been considered by the Faculty, if the student still feels the situation has not been fully resolved s/he may consult the Dean of Students. However, the Dean of Students can have no input into the academic judgment of the lecturer and can only review the grievance to ensure proper procedure has been followed.

Relevant University Policies, procedures and students services:

For more information students must refer to the Faculty handbook, online references or consult the UOW policy in full at <http://www.uow.edu.au/handbook/courserules/studacgrievpol.html> which contains a range of policies on educational issues and student matters.

This outline should be read in conjunction with the following documents:

Code of Practice - Teaching and Assessment http://www.uow.edu.au/handbook/codesofprac/teaching_code.pdf	Code of Practice - Students http://www.uow.edu.au/handbook/codesofprac/cop_students.html
Code of Practice-Honours http://www.uow.edu.au/handbook/CodeofPractice-Honours.pdf	Acknowledgement Practice Plagiarism will not be tolerated: http://www.uow.edu.au/handbook/courserules/plagiarism.html
Key Dates http://www.uow.edu.au/student/dates.html	Student Academic Consideration Policy: http://www.uow.edu.au/about/policy/studentacademicconsiderationpolicy.pdf
Course Progress Requirements: http://www.uow.edu.au/student/mrp/index.html	Graduate Qualities Policy: http://www.uow.edu.au/about/teaching/qualities/index.html#_The_new_UOW
Academic Grievance Policy (Coursework and Honours students) http://www.uow.edu.au/handbook/courserules/studacgrievpol.html	Non-Discriminatory Language Practice and Presentation http://staff.uow.edu.au/eed/nondiscrimlanguage.html
Occupational Health and Safety http://www.uow.edu.au/about/policy/ohs.html	Ownership of Work & Intellectual Property Policy: http://www.uow.edu.au/handbook/generalcourserules/UOW028651.html
Human Research Ethics Committee: http://www.uow.edu.au/research/rso/ethics/human/	Rules for student conduct: http://www.uow.edu.au/handbook/generalrules/StudentConductRules.pdf
Independent Learners' Introductory Program http://www.uow.edu.au/student/attributes/ilip/	Informatics Faculty Librarian, Ms Annette Meldrum, phone: 4221 4637, email: ameldrum@uow.edu.au
Student Support Services: http://www.uow.edu.au/student/services/ Informatics Faculty SEDLO (Student Equity and Diversity Liaison Officers) Virginie Schmelitschek, phone 4221 3833, virginie@uow.edu.au	SISAT Internet Access & Student Resource Centre http://www.uow.edu.au/informatics/sisat/current/uow024466.html
SISAT Computer Usage Rules http://www.uow.edu.au/informatics/sisat/current/uow024457.html	SISAT Subject Outlines http://www.uow.edu.au/informatics/sisat/current/UOW055502.html