
SISAT

**School of Information Systems & Technology
Faculty of Informatics**

ISIT904 Systems Integration 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:

Mr Samuel Fosso Wamba

4221 3096

samuel@uow.edu.au

39.206B

Mr Fosso Wamba's consultation times during session:

Day

Thursday

Friday

Time

10:00 -12:00pm

8:30 -10:30am

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 hours lectures, 1 hour tut

Friday 10:30 AM – 12:30 PM 25-107

<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 aims to provide students with a broad knowledge of integrating individual disparate information system into a seamless enterprise information system. The subject will examine system integration in various perspectives from social, corporate to technical solutions. The students will also study system integration in the context of middleware models, tools and techniques. The student will learn to implement system integration solutions by identifying sources of data, mapping information, selecting and applying appropriate technology for integrating a new enterprise information system into existing systems.

Subject Objectives

On successful completion of this subject, students should be able to: Analyse and describe the interactions between complex information systems. Understand and describe integrated information system from organisational and technical perspectives. Analyse and describe system infrastructures and architectures in systems integration projects.

Graduate Qualities

This subject will continue to the following graduate qualities:

- Informed
- Independent learners
- Problem solvers
- Effective communicators
- Responsible
- Teamwork
- Innovation and Design

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 to systems and enterprise integration	Ch 1 & 2*
2	The challenge of systems integration process	Ch 3*
3	Process-driven integration	Ch 4*
4	Distributed systems integration & infrastructure	Ch 5*
5	Information integration	Ch 6*
6	Enterprise integration architecture	Ch 7*
7	Planning of systems integration	Ch 8*
8	Design of systems integration	Ch 9*
9	Implementation and support of systems integration	Ch 10*
10	Managing systems integration projects	Ch 11*
11	Backward integration	Ch 12*
12	Forward integration	Ch 13*
13	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):

*Sandoe, K., Corbitt, G. and Boykin, R., (2001). Enterprise Integration, John Wiley

Other Resources:

Papazoglou, M.P. and Ribbers, P.M.A. (2006). E-Business Organizational And Technical Foundations. John Wiley & Sons, Ltd.

Gold-Bernstein, B. and Ruh, W. (2004) Enterprise Integration: The Essential Guide to Integration Solutions, Addison-Wesley

Lankhorst, M. (2005), Enterprise Architecture at Work: Modelling, Communication and Analysis, Springer

Myerson, J.M. (2001) Enterprise Systems Integration (2nd edition), Auerbach Publication

Prencipe, A., Davis, A. and Hobday, M. (2003), The Business of Systems Integration, Oxford University Press

Ross, J. W., Weill, P. and Robertson, D. (2006), Enterprise Architecture As Strategy: Creating a Foundation for Business Execution, Harvard Business School Press

Carbone, J., (2004) IT Architecture Toolkit, Prentice Hall PTR

Betz, C. T. (2006), Architecture and Patterns for IT Service Management, Resource Planning, and Governance: Making Shoes for the Cobbler's Children, Morgan Kaufmann

Assessment:

This subject has the following assessment components.

ASSESSMENT ITEMS & FORMAT	% OF FINAL MARK	Minimum % required to pass	INDIVIDUAL/ GROUP	DUE DATE
Report 1 (see below)	10%		Individual	11:59pm on Monday Week 5 through e-Learning and in your tutorial in hardcopy
Report 2 (see below)	30%		Group of 4 or 5 members	11:59pm on Monday Week 8 through e-Learning and in your tutorial in hardcopy
Final exam	60%	40%	Individual	TBA

Notes on Assessment:

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

Detailed specifications of report assignments will be published on eLearning in due course.

Report 1

The advances of the World Wide Web have increased the need for systems integration for multiple information sources. You are required to investigate issues and challenges associated with the tasks of Web-based systems integration using a comparative analysis of the two following e-business models:

(i) <http://www.aquarelle.com/> and (ii) <http://www.amazon.com/>. Your analysis should be based on:

1. The customer perspective in terms of usability, ease of use and interoperability (For example, register on (i) <http://www.aquarelle.com/> and try to make purchases on <http://www.aquarelle.co.uk/> and <http://www.aquarelle.be/>; and (ii) <http://www.amazon.com/> and try to make purchases on <http://www.amazon.ca/> and <http://www.amazon.com/tag/australia>).

2. The IT perspective in terms of back-end and enterprise information systems integration (www.aquarelle.com vs. www.amazon.com).

The report should be between 1500-2000 words in length, 1.5 lines spacing, regular Time New Roman, size 12 and you are required to follow Harvard citation standard.

Report 2

You are required to investigate project management issues and challenges relating to Web-based systems integration. Examples of issues and challenges can include developing effective project team, controlling Web-based systems integration project, deployment management issues in Web-based systems integration project etc. This is group work (of 4-5 members). The report should be between 5500-6000 words in length, 1.5 lines spacing, regular Time New Roman, size 12 and you are required to follow Harvard citation standard.

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.

The report needs to be submitted **BOTH** as a printed version and in digital form. The printed hardcopy must include a completed School Cover Sheet. In the case of the report 2, members of each group should reach agreement on contribution balances among them and indicate this issue clearly with signature in their hardcopy submission. Students must also retain a copy of their work in case assignments go missing. Students must also retain their own copies of all materials that are posted to the e-Learning space and may be required to repost those materials at any time during the subject.

All teams are formed with the agreement of the tutor in week 2 and the tutor reserves the right to change team membership at any time. Each team generally has 4 or 5 members. Team allocations and submissions will be managed and undertaken with the cooperation between tutors and students through e-Learning space.

To be eligible for a Pass in this subject a student must achieve a mark of at least 40% 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:

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

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 25% of the assessment mark per day including weekends. Work more than four (4) 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