



MONASH University
Information Technology

FIT2013
e-Business software technologies

Unit Guide

Semester 1, 2012

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

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FIT2013 e-Business software technologies - Semester 1, 2012

This unit, together with [FIT3009](#), provides a top-to-bottom coverage of e-Business Systems. The emphasis in this unit is on the technologies used to implement e-Business Systems, ie. the low level of such systems. Although this unit is entirely suitable for a future developer of e-Business Systems, it is optimally targeted at future managers of such development. Thus practical exercises will be illustrative rather than industrial strength and technology issues will be given equal coverage with technology details. The primary aim of the unit is to familiarise students with as many of the currently popular e-Business technologies as possible so that their design and implementation decisions in the future will be informed and therefore produce successful systems with a high degree of probability.

Mode of Delivery

Clayton (Day)

Contact Hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

Workload commitments are:

- two-hour lecture and
- two-hour tutorial (or laboratory) (requiring advance preparation)
- a minimum of 2-3 hours of personal study per one hour of contact time in order to satisfy the reading and assignment expectations.
- You will need to allocate up to 5 hours per week in some weeks, for use of a computer, including time for newsgroups/discussion groups.

Unit Relationships

Prohibitions

BUS1042

Prerequisites

[FIT1002](#) or BUS1060 or CSE1301

Chief Examiner

Dr Sue Bedingfield

Campus Lecturer

Clayton

Stephen Huxford

Consultation hours: To be advised

Academic Overview

Outcomes

At the completion of this unit students will have -

A knowledge and understanding of:

- client-side programming ((X)HTML, JavaScript, CSS, DHTML, DOM);
- server-side programming (ASP.NET, Ruby on Rails, JSF);
- basic XML technologies (XML, DTD, XPath, XSLT, XMLSchemas);
- web Servers (IIS, Apache);
- current, popular IDEs and programming technologies
- security (encryption, transport and document level, Digital Signatures, SSL, TSL, Access Control Standards);
- standards Bodies (IETF, W3C, OASIS, OAGIS etc);
- eBusiness formal and de jour Standards.

Developed attitudes that enable them to:

- have an appreciation that eBusiness Systems are better designed and managed by professionals with a sound knowledge of the technologies used to build these systems;
- have an appreciation that underlying technologies often directly impact the Business goals of an eBusiness System via constraints and opportunities presented by the technologies;
- have a belief that all existing technologies in back-end systems can be integrated by appropriate middleware;
- value the importance of choosing to use established technology standards where possible.

Developed the skills to:

- develop a small eBusiness system (B2B or B2C and IDE/implement the appropriate technology;
- create an appropriate Technical Architecture for a specified, non-trivial eBusiness solution;
- create XML documents, schemas for these documents, transforming and querying such documents using fundamental XML skills.

Demonstrated the communication skills necessary to:

- identify and communicate the technical opportunities and problems associated with a particular technical solution to a business solution;
- understand the relationship between Business and Technical analysts within an eBusiness System Development.

Graduate Attributes

Monash prepares its graduates to be:

1. responsible and effective global citizens who:
 - a. engage in an internationalised world

Academic Overview

- b. exhibit cross-cultural competence
- c. demonstrate ethical values

critical and creative scholars who:

- a. produce innovative solutions to problems
- b. apply research skills to a range of challenges
- c. communicate perceptively and effectively

Assessment Summary

Examination (3 hours): 60%; In-semester assessment: 40%

Assessment Task	Value	Due Date
11 Laboratory Assessments	Each of 10 tutorials will be worth 4 marks for a total of 40% of your final mark for the unit	Tutorial work will be marked in tutorials
Examination 1	60%	To be advised

Teaching Approach

Lecture and tutorials or problem classes

This teaching and learning approach provides facilitated learning, practical exploration and peer learning.

Feedback

Our feedback to You

Types of feedback you can expect to receive in this unit are:

- Informal feedback on progress in labs/tutes
- Solutions to tutes, labs and assignments

Your feedback to Us

Monash is committed to excellence in education and regularly seeks feedback from students, employers and staff. One of the key formal ways students have to provide feedback is through SETU, Student Evaluation of Teacher and Unit. The University's student evaluation policy requires that every unit is evaluated each year. Students are strongly encouraged to complete the surveys. The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied and areas for improvement.

For more information on Monash's educational strategy, and on student evaluations, see:

<http://www.monash.edu.au/about/monash-directions/directions.html>

<http://www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html>

Previous Student Evaluations of this unit

Inclusion of 2 new lectures and labs concerning smartPhone application development.

Although students often complain that the unit deals with too many technologies this is in the very nature of Web and therefore eBusiness technologies.

Students will be warned that there will be many technologies discussed but the expectation of what they need to know about each will also be clearly stated. This expectation will be comensurate with the norm for a second year unit.

If you wish to view how previous students rated this unit, please go to <https://emuapps.monash.edu.au/unitevaluations/index.jsp>

Required Resources

Please check with your lecturer before purchasing any Required Resources. Prescribed texts are available for you to borrow in the library, and prescribed software is available in student labs.

Microsoft Visual Studio.Net 2008

Latest browser (eg. Mozilla or IE)

Microsoft IIS

Unit Schedule

Week	Activities	Assessment
0		No formal assessment or activities are undertaken in week 0
1	Admin + Introduction	no tutorial
2	CSS	tute worth 4% (top 10 tutes count)
3	JavaScript	tute worth 4% (top 10 tutes count)
4	JavaScript	tute worth 4% (top 10 tutes count)
5	JavaScript	tute worth 4% (top 10 tutes count)
6	JavaScript/DOM	tute worth 4% (top 10 tutes count)
7	DOM	tute worth 4% (top 10 tutes count)
8	Servers, Ajax and XML	tute worth 4% (top 10 tutes count)
9	ASP.NET	tute worth 4% (top 10 tutes count)
10	ASP.NET	tute worth 4% (top 10 tutes count)
11	iOS	tute worth 4% (top 10 tutes count)
12	iOS	tute worth 4% (top 10 tutes count)
	SWOT VAC	No formal assessment is undertaken SWOT VAC
	Examination period	LINK to Assessment Policy: http://policy.monash.edu.au/policy-bank/academic/education/assessment/assessment-in-coursework-policy.html

*Unit Schedule details will be maintained and communicated to you via your MUSO (Blackboard or Moodle) learning system.

Assessment Requirements

Assessment Policy

Faculty Policy - Unit Assessment Hurdles

(<http://www.infotech.monash.edu.au/resources/staff/edgov/policies/assessment-examinations/unit-assessment-hu>)

Assessment Tasks

Participation

- **Assessment task 1**

Title:

11 Laboratory Assessments

Description:

During each lab session students will be required to complete specified coding tasks. This work will be marked in the same laboratory session.

Each laboratory is worth 4% of the final mark. The best 10 of the 11 laboratory marks will constitute the 40% non-exam mark for each student.

Weighting:

Each of 10 tutorials will be worth 4 marks for a total of 40% of your final mark for the unit

Criteria for assessment:

Students will be awarded marks for completing coding tasks according to the principles and styles enumerated in lectures. It is important to understand working code will NOT attract full marks in its own right. Students will be questioned on their code. Marks will only be given for code the student can clearly describe and semantically interpret to the satisfaction of the tutor.

Due date:

Tutorial work will be marked in tutorials

Examinations

- **Examination 1**

Weighting:

60%

Length:

3 hours

Type (open/closed book):

Closed book

Electronic devices allowed in the exam:

None

Assignment submission

It is a University requirement

(<http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-procedures.html>) for students to submit an assignment coversheet for each assessment item. Faculty Assignment

Assessment Requirements

coversheets can be found at <http://www.infotech.monash.edu.au/resources/student/forms/>. Please check with your Lecturer on the submission method for your assignment coversheet (e.g. attach a file to the online assignment submission, hand-in a hard copy, or use an online quiz).

Online submission

If Electronic Submission has been approved for your unit, please submit your work via the VLE site for this unit, which you can access via links in the my.monash portal.

Extensions and penalties

Submission must be made by the due date otherwise penalties will be enforced.

You must negotiate any extensions formally with your campus unit leader via the in-semester special consideration process:

<http://www.infotech.monash.edu.au/resources/student/equity/special-consideration.html>.

Returning assignments

Students can expect assignments to be returned within two weeks of the submission date or after receipt, whichever is later.

Other Information

Policies

Monash has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University's academic standards, and to provide advice on how they might uphold them. You can find Monash's Education Policies at:

<http://policy.monash.edu.au/policy-bank/academic/education/index.html>

Key educational policies include:

- Plagiarism
(<http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-policy.html>)
- Assessment
(<http://www.policy.monash.edu/policy-bank/academic/education/assessment/assessment-in-coursework-p>)
- Special Consideration
(<http://www.policy.monash.edu/policy-bank/academic/education/assessment/special-consideration-policy.h>)
- Grading Scale
(<http://www.policy.monash.edu/policy-bank/academic/education/assessment/grading-scale-policy.html>)
- Discipline: Student Policy
(<http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-discipline-policy.html>)
- Academic Calendar and Semesters (<http://www.monash.edu.au/students/key-dates/>);
- Orientation and Transition (<http://www.infotech.monash.edu.au/resources/student/orientation/>);
and
- Academic and Administrative Complaints and Grievances Policy
(<http://www.policy.monash.edu/policy-bank/academic/education/management/complaints-grievance-policy>)
- Codes of Practice for Teaching and Learning
(<http://www.policy.monash.edu.au/policy-bank/academic/education/conduct/suppdocs/code-of-practice-tea>)

Student services

The University provides many different kinds of support services for you. Contact your tutor if you need advice and see the range of services available at www.monash.edu.au/students. For Sunway see <http://www.monash.edu.my/Student-services>, and for South Africa see <http://www.monash.ac.za/current/>

The Monash University Library provides a range of services and resources that enable you to save time and be more effective in your learning and research. Go to <http://www.lib.monash.edu.au> or the library tab in my.monash portal for more information. At Sunway, visit the Library and Learning Commons at <http://www.lib.monash.edu.my/>. At South Africa visit <http://www.lib.monash.ac.za/>.

Academic support services may be available for students who have a disability or medical condition. Registration with the Disability Liaison Unit is required. Further information is available as follows:

- Website: <http://monash.edu/equity-diversity/disability/index.html>;
- Email: dlu@monash.edu
- Drop In: Equity and Diversity Centre, Level 1 Gallery Building (Building 55), Monash University, Clayton Campus, or Student Community Services Department, Level 2, Building 2, Monash University, Sunway Campus
- Telephone: 03 9905 5704, or contact the Student Advisor, Student Community Services at 03 55146018 at Sunway

Other Information

Other

The following websites contain relevant and useful information:

www.w3c.org

msdn.microsoft.com/en-us/vstudio