

Web Design and Programming – 7175
Web Design and Programming G – 6691

Unit Outline 2009

Faculty of Information Sciences and Engineering

University of Canberra

Australian Government Higher Education (CRICOS)
Registered Provider number: #00212K

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This Unit Outline must be read in conjunction with:

- a) *Studying at the University of Canberra: A Guide to Policies and Procedures*, which sets out University-wide policies and procedures, including information on matters such as plagiarism, grade descriptors, moderation, feedback and deferred exams, and is available at <http://www.canberra.edu.au/student-services>
- b) *Guide to Student Services at the University of Canberra*, and is available at <http://www.canberra.edu.au/student-services>
- c) Any additional information specified in section 6f.

1: General Information

- 1a Unit title**
Web Design and Programming, Web Design and Programming G
- 1b Unit number**
7175, 6691
- 1c Semester and year offered**
S2, 2009
- 1d Credit point value**
3 credit points
- 1e Unit level**
UG (7175) and G (6691)
- 1f Name of Unit Convener and contact details (including telephone and email)**
Dr Wanli Ma, 6201 2838, Wanli.Ma@canberra.edu.au, Office 11B45
Dr Dat Tran, 6201 2394, Dat.Tran@canberra.edu.au, Office 11B17
- 1g Name of Unit Moderator and contact details (including telephone and email)**
Prof. Dharmendra Sharma, 6201-2153, Dharmendra.Sharma @canberra.edu.au, Office 11B13

- 1h Administrative contact details (including name, location, telephone and email)**
 The Faculty Administrative Officers at 11B14, Ph: 6201-2153/6201-2417, email: ise@canberra.edu.au.

2: Academic Content

2a Unit description and learning outcomes

Unit description: This unit provides the principles and skills of web application development. It arms students with current web programming technology and the skills for developing web oriented applications

Learning outcomes: Upon successful completion of this unit, the student will have essential skills to develop web oriented applications. The students will also gain self development skills and problem solving skills in these areas. Students will be able to demonstrate an understanding of the principles and practical skills in the following areas: Internet and web application structures, Web applications with database, accessibility, security and legal issues.

This unit also addresses and promotes the UC graduate attributes on generic skills and attributes as listed in “*Generic skills and attributes of University of Canberra graduates from undergraduate and postgraduate coursework courses*” https://guard.canberra.edu.au/policy/policy.php?pol_id=3030. Please see also the Unit Design for the tactics used in addressing generic skills.

2b Prerequisites and/or co-requisites

Software Technology 1 for Web Design and Programming (7175)
 Computers & Programming G and Database Design G for Web Design and Programming G (6691)

3: Delivery of Unit and Timetable
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3a Delivery mode

This subject is delivered on campus with weekly lectures and tutorials/labs, as per UC timetable for the semester. The lectures are of theoretical nature, and the tutorials/labs, in addition to supplement the lectures, are more practical.

3b Schedule of topics/lectures/tutorials/practicals/field classes by the day

Week	Activity
	Note: this is a proposed schedule with informative value only
1	Introduction, Information Architecture, page layout, and Typography (Paul Wang: Ch 5)
2	Design Basics (Paul Wang: Ch1, 4)
3	Visual Studio, ASP.NET, Master Pages, and Content Pages
4	HTML (Paul Wang: Ch2, 3, 8), Cascading Style Sheets (Paul Wang: Ch 6)
5	JavaScript (Paul Wang: Ch 9)
6	JavaScript, DOM (Paul Wang: Ch 9, 10), AJAX; and Summary
7	C# Programming, ASP.NET, XML, and Web Service

8	<i>class free period</i>
9	<i>class free period</i>
10	Web Forms and Web Controls
11	Data Access with ADO.NET
12	AJAX and Silverlight
13	Data Access with LINQ
14	Globalisation, Review
15	Programming Security, Summary

4: Unit Resources

4a Lists of required texts/readings

Text Books:

“An Introduction to Web Design + Programming”, Paul S. Wang and Sanda S. Katila, Thomson, 2004

A useful web site:

W3 Schools: <http://www.w3schools.com/>

Online materials:

Lecture materials, tutorial questions and answers, assignment specifications, and other related information are available from <http://learnonline.canberra.edu.au>.

4b Materials and equipment

Computers and software in Building 11 laboratory are used in this unit. The use of private personal computers and relevant software is beneficial, but not essential.

4c Unit website

<http://learnonline.canberra.edu.au>

5: Assessment

5a Assessment overview

Assessment Item (including exams held in the exam period)	Due Date of Assignments	Weighting (total to equal 100%)
Assignment 1	5:00pm, Friday, week 7	20%
Assignment 1	5:00pm, Friday, week 15	20%
Final Exam: 3 hours, closed book; permitted materials: 4 sides of A4 sized handwritten notes	As per university exam timetable	60%

5b Details of each assessment item

Assignment 1: concerning Web page design, Cascading Style Sheets, and JavaScript.
Assignment 2: concerning ASP.NET, ADO.NET, LINQ, Silverlight and Web Service.

Late submission will attract penalties:

- 1 calendar day after the submission deadline, 2 marks penalty, which equals to 2% weight of the total marks.
- 2 calendar days after the submission deadline, 4 marks penalty, which equals to 4% weight of the total marks.
- After 2 calendar days, for each extra calendar day, 3 marks penalty, which equals to 3% weight of the total marks, until up to the full mark of the assignment.

No other forms of assignment submissions, other than through Moodle, are accepted.

5c Special assessment requirements

For final assessment in the subject, the result will be one of the following grades: HD, DI, CR, P, or Fail. The total mark is calculated by the following formula:

$$\begin{aligned} \text{Total mark} = & \text{Assignment 1 mark} + \\ & \text{Assignment 2 mark} + \\ & \text{Examination mark} \end{aligned}$$

The grade for the subject is then determined according to the following algorithm, the highest possible:

Total mark \geq 85 and examination mark \geq 85%	HD
Total mark \geq 75 and examination mark \geq 75%	DI
Total mark \geq 65 and examination mark \geq 65%	CR
Total mark \geq 50 and examination mark \geq 50%	P
The rest	FAIL (NX, NS, NC or NN)

5d Supplementary assessment

Not available

5e Text-matching software

Not in use; however, the lecturer reserves the right to ask a student to attend extra oral defence to his/her assignment. Should it happen, the mark for the assignment will be based on the oral performance.

6: Student Responsibility

6a Workload

The amount of time you will need to spend on study in this Unit will depend on a number of factors including your prior knowledge, learning skill level and learning style. Nevertheless, in planning your time commitments you should note that for a 3cp unit the total notional workload is assumed to be 150 hours or an average of 10 hours per day in this case. These hours include time spent in classes and tutorials, and labs.

6b Special needs

Students who need assistance in undertaking the unit because of disability or other circumstances should inform their Unit Convener or the Disabilities Office as soon as possible so the necessary arrangements can be made.

6c Attendance requirements

There will be no roll calls for lectures; however, students are encouraged to make every attempt to attend all scheduled teaching activities. Failing to do so may result in poor understanding and failure of the unit.

6d Required IT skills

Common IT skills, such as writing a report electronically, using web browsers, and using WebCT etc., are required.

C#, Visual Studio, and SQL skills are highly desirable, but not essential. **For those who do not have the skills, extra effort to catch up the missing skills by the students is required, and the workload will exceed 150 hours.**

6e Costs

Textbook, Web access, and consumables.

Other information, including fees and charges, can be found on OSIS.

6f Additional information

All assignments will require background reading, intelligent criticism, keen observation and the development of a line of argument to support any particular adopted stance. It is also a requirement that each assignment is totally the work of the individual submitting it (unless explicitly stated otherwise) and that it is produced specifically for the subject in question. **The reproduction, paraphrasing, summarizing or otherwise presenting in altered form, another person's ideas or arguments without acknowledgment is plagiarism.** Any form of plagiarism will be reported to the Dean of Faculty for investigation.

7: Student Feedback

All students enrolled in this Unit will have an opportunity to provide anonymous feedback on the Unit at the end of the Semester via the Unit Satisfaction Survey which will be presented to you on OSIS. Your lecturer or tutor may also invite you to provide more detailed feedback on their teaching through an anonymous in-class questionnaire administered through the University's Teaching and Learning Centre (TLC).

8: Authority of this Unit Outline
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Any change to the information contained in Section 2 (Academic content), Section 3 (Delivery of Unit and timetable) and Section 5 (Assessment) of this document, will only be made by the Unit Convener if the written agreement of staff and a majority of students has been obtained; and if written advice of the change is then forwarded to each student enrolled in the Unit at their registered term address. Any individual student who believes him/herself to be disadvantaged by a change is encouraged to discuss the matter with the Unit Convener.