



B336 Internet Systems Programming

Unit Introduction

(Week 1 Lecture 1)



The point of this first lecture:

- Give motivation for what we will be doing in this unit
- Provide critical information about studying in this unit
- Do all necessary start-of-semester administration for enrolled students.



Lecture Outline

- Unit Objectives
- Subjects covered in this unit
- How to approach this unit
- Unit web site
- Other admin matters



Learning Objectives

Your learning objectives for this unit should be:

1. To understand in detail the technical workings of key Internet and web technologies, specifically web communications (HTTP clients and servers), web application programming, and XML technologies.
2. Be able to write software that drives the technologies in (1).
3. Understand the basic requirements needed to construct Internet solutions for organizations and enterprises.
4. Develop skills in self-learning, communications, research, trial-and-error, etc to derive Internet solutions.



Learning Objectives (in a nutshell)

1. Understand technologies.
2. Write software.
3. Construct solutions.
4. Self-learning.



Learning Objectives

- The lectures and labs is geared towards helping you with objectives 1, 2 and a bit of 3.
- Assignments 1 & 2 will do the same, but some of the requirements will be geared towards helping you develop skills to construct novel solutions (objective 3) and be self-dependent (objectives 4).



Subjects Covered

- **Web clients/servers**
 - web server management (using Apache in labs)
 - writing your own simple HTTP clients and servers
 - writing other online services
- **XML Technologies**
 - DTD, XSL, DOM, SAX etc.
 - example XML applications
 - Web Services today
- **Web Server-side Programming**
 - PHP and ASP.NET



Is this unit for you?

- This is a very technical unit.
 - It is fundamentally about programming and constructing technical solutions.
- If programming is not your cup of tea, look for the exit NOW!



How to approach this unit

- The best way to study for this unit is to look at completing the assessments.
 - Study the material from the lectures and extra references with a view towards completing the labs
 - Use what you do in the labs to complete assignments 1 & 2.
- If you do well in the assignments, you should be able to pass the exam.



How to approach this unit

- Most units materials leads you to hands-on work
 - The lectures are basically just glorified lab instructions, and the the labs are to prepare you to be able to complete assignments 1 & 2.
 - Lectures □ Labs □ Assignments/Exam



Required Reading Materials

- You need to have the following materials for this unit:
 1. Unit Outline and Reader (available in bookshop)
 2. Textbook: XML Complete, Sybex Inc, 2001 (available in bookshop)
 3. Materials on unit web site.



Unit Web Site

- All relevant information required for this unit is on the unit web site

<http://www.it.murdoch.edu.au/units/b336>

- If the information is not on the site itself, there will be links or instructions on where to get them.
 - The structure of the web site will be familiar to those of you who have taken my units before.



Unit Web Site

- Some unit materials are password protected.
 - Consult your tutor for the username and password.



Discussions Forum

- There is a discussion forum on the web site
<http://www.it.murdoch.edu.au/units/b336/discus>
- The **SINGLE, MOST IMPORTANT** part of the whole unit web site is the **Announcement** section, which is a group in the discussion forum.
 - By default, you will get email notification for Announcements made in that group.



Discussions Forum

- To post to the groups, you need a username and password.
 - Your username is your 8-digit student number
 - Your password is your email address in MyInfo as of day 1 of the semester.
 - Please go to the forum and change your passwords ASAP (use the “Edit Profile” button on the top right corner)
 - By default, your e-mail notification to the “Announcement” group should be turned on - DO NOT turn this off.



Discussions Forum

- All students enrolled before or during day 1 of the semester (17/2/03) will have their discussion forum account created automatically.
- Students enrolled **AFTER** day 1 needs to approach your tutor to have your forum account created.
 - This account is independent of any other account in the university - you need to explicitly request your tutor to create it.



Discussions Forum

- Make use of this forum as much as you can. You will find your fellow students an invaluable asset when you encountering problems in your assignments and other aspects.
 - Also, if you need to ask me any questions, I would be more inclined to answer in the forum for the benefit of everybody, then by private email for the benefit of one.



Assessments

Assessments	Description	Value	Due Date
Assignment 1	Apache installation and management Implementing a web server and client	30%	Plans due week 4; Assignment due Tuesday of week 6
Assignment 2	XML solutions	30%	Plans due week 9; Assignment due Tuesday of week 11
Lab Exercises (Assignment 3 for external students)	Assessable components of lab exercises	10%	Internal students demonstrate to tutor every week; External students submit on disk before Friday of week 13
Examination	Questions on materials from lectures and labs.	30%	Examination period



Your Final Grade

- In order to pass this unit you must:
 - pass the exam (normally 50%), AND
 - pass the assignment component (normally 50%).
- Your final grade will be based on your combined aggregate score for the assignment and examination components



Submitting Scripts/Programs which are not your own

- You may not submit such work which are not your own for assessment, **UNLESS**:
 - You enhance the “borrowed” material significantly, in line with the unit’s objectives
 - The student notifies the unit coordinator BEFORE submitting the work, and fully documents the parts of the work that is theirs.
- The philosophy: It’s OK to use other people’s work (why reinvent the wheel?), but it is not OK to take credit for it.



Miscellaneous Announcements

- South St campus internal students: Sign-up for the lab on-line now. Go to the labs page at the unit web-site.
- The Unit Outline and Reader are available in the bookshop now.
 - External students will be mailed a copy automatically.
 - Please read every word in the unit outline.



Miscellaneous Announcements

- External student can get instructions on the required software from the downloads page on the unit web site.
 - Internal students are welcome to download and install them too.
- The following is a link to a study schedule for this unit. It has a breakdown of the required readings week-by-week. Please follow it!
 - <http://www.it.murdoch.edu.au/units/b336/unitinfo/schedule.shtml>