

B211 Internet Computing

Unit Introduction

Objectives 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

- Contact details
- Unit objectives
- Topics covered in this unit
- Assessments
- How to approach this unit
- Unit web site
- Other matters

Contacts

- Unit Coordinator and Lecturer:

- H.L. Hiew
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(South St Campus)
Room: S&C 2.4
Tel: (08) 9360 6058

(Rockingham campus - Tues only)
Room: ACL 2/26
(08) 9360 7026

- You can also leave messages with

- Secretary, School of Information Technology
Room: BITL 1.02
Tel: (08) 9360 6120/2521
Fax: (08) 9360 2941

The Importance of the Internet

- Do I still have to convince you of this?

Learning Objectives

Your learning objectives for this unit are:

1. To gain a general understand of the technical workings of key Internet and web technologies.
2. Be able to write software that operates using the technologies in (1).
3. Appreciate the impact of the technologies in (1) on your life, the life of others, and society in general.
4. Develop appropriate attitudes and skills in independent self-learning to be able to adapt to future changes and continue to contribute effectively to Internet developments after leaving this unit.

Learning Objectives (in a nutshell)

1. Understand Internet technologies.
2. Write web software.
3. Appreciate impact of technologies.
4. Life-long learning - learn to learn for yourself.

My Philosophy of Teaching

- My philosophy on teaching University units:
 - In 1st-year units, you should be given as much hand-holding as possible since you are completely unfamiliar with your field of study.
 - When you reach final 3rd-year units, you should only be guided to learn for yourself
 - » What is the point of giving you an HD for a subject area, when you are completely helpless without someone supplying you lecture notes?
- The activities and assessments in this unit will be geared towards transiting you between the two extremes above.

A guiding hand...

- What I expect is that if I hand-hold you to walk the first 10 steps of your journey, you will take the next 100 steps on your own.
- If I guide you 10 steps, and 10 steps is all you take, then I consider that to be a complete waste of my time.

Content vs Process

- In a field that rapidly changes (such as the Internet), it is not sufficient to just gather content. You also need to pick up skills to upgrade content for the future.
- Content is still important since it gives you the foundation for learning new things, so a study programme should not completely give up on providing content.

Learning to Learn in B211

- As you will see when I describe the assessments, in this unit,
 - you will be required to show that you have assimilated as much content I provide you as possible, but also
 - you will be required to demonstrate, attitudes and skills that allows you to **learn by yourself** once you leave this unit.

Topics Covered

- Topic 1: The Global Network
 - Software, protocols, phone lines, fiber cables, ISPs, etc.
- Topic 2: The World Wide Web
 - Browsers, web servers, proxies, scripting, etc.
- Topic 3: Internet and Society
 - Global development, accessibility, internationalization.
- Topic 4: Internet Application Development
 - XHTML, XML, DHTML, Java, Visual Basic, Microsoft .NET, Open Source, etc.

Topics Covered

- Topic 5: Information Transfer over the Internet
 - SMTP, MIME, Multimedia Transport, etc.
- Topic 6: Deploying Internet Technologies
 - e-Business, B2C, B2B, e-Government, 3G wireless services.
- Topic 7: Internet Security
 - Cryptography, Digital Signatures, SSL, SET and Digital Payments, etc.

Prerequisites

- The prerequisites for this unit are:
 - B102 Introduction of Computer Science, OR
 - B108 Introduction to Multimedia and the Internet
- Depending on your background, you may have different weaknesses:
 - B102 students will have to learn basic HTML and web page construction
 - B108 students will have to pick up fundamental programming skills.
- If you have done both units, then lucky you!

Unit Web Site

- All relevant information required for this unit is on the unit web site
<http://www.it.murdoch.edu.au/units/b211>
- Everything in this unit will be made available in electronic form on the unit web site:
 - If the information is not on the site itself, there will be links or instructions on where to get them.

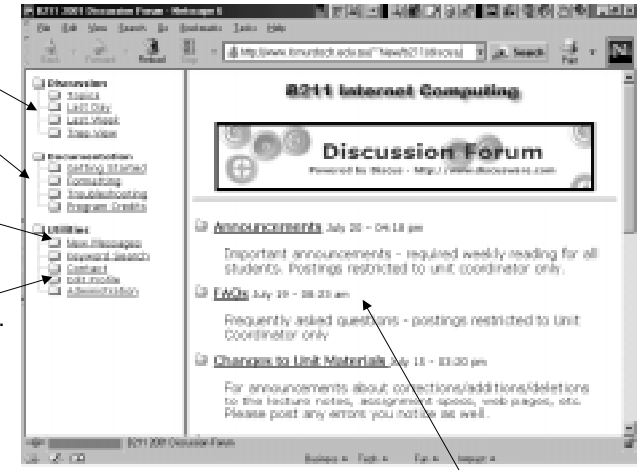
Important Announcements and Discussions

- The web site contains a discussion forum
<http://www.it.murdoch.edu.au/units/b211/discus>
- The SINGLE, MOST IMPORTANT part of the whole unit web site is the *Announcement* section of discussion forum.
 - You are expected to read the announcements at least once a week, and more regularly if you can.

Discussions Forum

- Other groups currently in the discussion forum:
 - FAQs
 - Corrections to unit information
 - Software problems
 - Question about lecture and lab material
 - General discussions
 - Extra-curricular activities
 - Suggestion Box
 - Test Messages

- Display Messages in different ways
- Online instructions on how to do different things
- Display the new messages since your last visit
- To edit your personal details. Please use to change your password to your own.



www.it.murdoch.edu.au/units/b211/discus

The actual messages sorted in groups.

Discussions Forum

- To post to the groups, you need a username and password.
 - Your username and password are both your 8-digit student ID.
 - Please go to the forum and change your passwords ASAP (use the “Edit Profile” button on the right frame)
- Students enrolled AFTER 20/7/2001 needs to see your tutor to have your accounts on the forum created.

Discussions Forum

- Make use of this forum as much as you can. You will find your fellow students an invaluable asset when you encounter problems in your assignments and other aspects.
 - Sometimes the only saving grace to a lousy unit is the stuff you learn from your fellow students in the unit - no comment on how this applies to B211! 😊
- If more groups needs to be created later in the semester, I will do so.

Discussions Forum

- Although not assessed, I consider the use of an online forum an invaluable tool in your learning. Take advantage of it.

The Study Guide

- The unit web-site has a *Study Guide* section.
- **You must read every word in the *Study Guide* section of the unit web-site before you decide you want to proceed in this unit!**
- You cannot dispute any unit requirements later in the semester by claiming you didn't read the information now.

Assessments

<u>Assessment</u>	<u>Description</u>	<u>Value</u>	<u>Due Date</u>
Assignment 1	1. Short questions 2. Report 3. Web Research	20%	Plans due week 4 Full assignment due Monday week 6
Assignment 2	CGI Application Programming	25%	Plans due week 7 Full assignment due Monday week 10
Assignment 3	Web site evaluation	15%	Plans due week 11 Full assignment due Monday week 13
Exam		40%	

Plans and Evaluation of Plans

- In keeping with the objective of getting you to learn for yourself, for ALL assignments, you will be required to
 - submit a plan before you start work, and
 - submit a evaluation of your plan once you finish.
- The point of this to raise your awareness on what is important in solving a task, that can be applied to future tasks.

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

Late Submission Penalties

- Assignment submitted late will incur penalty of 10% deduction to your raw mark per day.

Keeping Up with Current Affairs

- You will be required to read the IT section of the newspaper *the Australian* every Tuesday from now until the end of semester.
 - Keep up on articles about the Internet (which basically means EVERY article).
 - You will be reminded at the end of every lab exercise sheet.
 - You will be supplied with self-test questions to test your up-to-dateness, and sample answers.
 - You will get similar question in the exam, on current affairs that happened this semester.

Keeping Up with Current Affairs

- Again, this is to encourage a key self-learning habit and attitude: to keep up with current happenings in your field.

How to approach this unit

- Due to the potentially **overwhelming** amount of reading supplied to you, I recommend you approach the unit like the following:
 - Keep up with the lectures, and do the labs exercises.
 - Use what you have learnt from the lectures and labs to do the assignments.
 - You will find that you can pass the assignments with materials from lectures and labs, but will probably not score high distinctions. If you want higher marks, then refer to the relevant readings.
 - If you have special interests in any particular topic, then do the full list of readings, and consult your tutor and lecturer.

Submitting work which are not your own

- You may not submit work which are not your own for assessment, **UNLESS**:
 - You enhance the material significantly. You will be assessed only on your enhancements.
 - You notify the unit coordinator **BEFORE** submitting the work, and fully documents the parts of the work that is yours.
- The reasoning
 - It's OK to use other people's work (why reinvent the wheel?), but it is not OK to take credit for it.

Submitting work which are not your own

- Do not be stupid and do what students in this unit in the past have done, like
 - download material from the web and submit them as their own.
 - copy each other's work and submit them separately with changes.
- We have seen so many cases of these in the past it is very easy to detect.
 - Don't test your assessors' web research skills - if you can find the material on the web, so can we.

Submitting work which are not your own

- ALL unacknowledged plagiarised work will be sent to the Dean to handle. I do not have time to waste on listening to excuses. **DO NOT TEST MY RESOLVE IN THIS!**

Labs

- All labs sessions start in week 2.
- South St campus internal students please submit your preferences for lab sessions now. Go to the labs page at the unit web-site.
 - The allocation program will run at 12noon Thur 26 July 2001 - you can check your allocation on the lab page after that
- The labs page also contains a link to the online lab changing facility
 - Change your lab sessions yourself - no one else can do it for you.

Other Important Matters

- External student can get the required software from the download web page. Internal students are welcome to download and install them too.
 - I will put up extra software if it becomes apparent that they are useful, or guide you to where to get them.
- Some of the web-site materials are protected by passwords. Use the online password query system to get the passwords.
 - <http://www.it.murdoch.edu.au/units/b211/misc/pwquery.shtml>

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