

Web Engineering

SENG2050/6050

Lecture 1a
Course Outline

Course Summary

Course Code	SENG2050/SENG6050
Course Title	Web Engineering
Homepage	https://uonline.newcastle.edu.au/
Unit Value	10
Assumed knowledge	SENG1110/INFT1004, SENG1050

The assumed knowledge will be needed to be fully prepared for this course

Course Description

- Introduction to the discipline of Web Engineering.
- Web Engineering Technologies
 - Concentrating on Java-based server-side tools (JSP, Java servlets, Java Beans, JDBC) and XML (XSLT)
 - Comparison with other server-side tools (PHP, .NET)
- Web Engineering Methodologies incorporating unique aspects of the problem domain such as:
 - document oriented delivery,
 - fine-grained lifecycles,
 - user-centric development,
 - client-server legacy system integration, and
 - diverse end user skill levels.

Course Learning Outcomes

On successful completion of the course students will be able to:

1. Develop a web application using server side programming languages and components.
2. Apply the web engineering methodologies for Web application development
3. Develop a component based web solution and use UML diagrams to describe such a solution.
4. Identify and discuss the security risk of a Web application.

Teaching Team

- Course Coordinator:
 - Dr. Nasimul Noman
 - Consultation: Wednesday: 12:00-14:00
 - Otherwise by appointment
 - Office: ES228
 - Phone: 40420488
 - E-mail: Nasimul.Noman@newcastle.edu.au
- Lecturer:
 - Dr. Cesar Maldonado Sanin
 - E-mail: cesar.maldonadosanin@newcastle.edu.au

Teaching Team

- Demonstrator: Mr. Dylan Cawsey
 - Tuesday (HC47), Thursday (ES205) and Friday (ES210)
 - E-mail: Dylan.Cawsey@uon.edu.au
- Demonstrator: Mr. Timothy Pitts
 - Friday (ES205)
 - Email: Timothy.Pitts@uon.edu.au

Teaching Timetable

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- **Lecture:**
 - Wednesday 9:00 – 11:00 at EA101
- **Computer Labs:**
 - Tuesday 14:00-16:00 (HC47)
 - Thursday 9:00-11:00 (ES205)
 - Friday 9:00-11:00 (ES205)
 - Friday 9:00-11:00 (ES210)

Lecture

- This is NOT an on-line course, please try to attend all lectures and labs!!
- Slides will be '*usually*' available before the lecture.
- Course materials will **ONLY** be available on-line.
- If you have any questions and problems, please let us know.

Computer Labs

- Each student needs to attend one computer lab per week (each lab has 2 hours).
- Labs will be used to...
 - Do exercises based on the materials in lectures
 - Get help and feedback on your assignments
- Labs start in week 3

Schedule

Week	Lecture Topic	Comp Labs
1	Outline, Introduction, Review	No labs
2	Servlets	No labs
3,4	JSP, Java Beans and Sessions	Servlets
5	JDBC	Servlets/A1 help
6	Case Study	JSP

Note: The schedule /content of the lecture may change to keep up with the progress of the course.

Schedule

Week	Lecture Topic	Comp Labs
7	Web Engineering	Java Beans
8	Database, JSTL	Java Beans/A2 Help
9	Web Service, MVC	Databases
10, 11	Web.xml, Web Security, PHP etc.	Databases
11-12	Course Review	Review/A3 Help

Note: The schedule /content of the lecture may change to keep up with the progress of the course.

Textbook

- Marty Hall: “More Servlets and Java Server Pages”.
- Can be downloaded for free from <http://pdf.coreservlets.com/>
- It covers most of the ‘technical’ aspects of the course
- Other texts will be recommended according to the topic or part of the course.

Assessment details

Assignment 1 12%

Assignment 2 13%

Group Project 30%

Final exam 45% as per University's examination timetable.

Late Submissions Policy.

- 10% off every day
- Submissions 5 days after due date **WILL NOT BE MARKED!**

Assessment details

Assignments and Project

- Assignment Cover Sheets (ACSs) will be made available electronically (Blackboard). A completed electronic ACS must accompany all assignment submissions.
- Your programs must run on the Engineering Faculty computer system. If you develop your program on a PC at home then allow sufficient time for final testing and modification at Uni.
- The assignments for SENG6050 students will have an extra work, which will be described in the assignments specification.

Assessment details

Final exam

- All students are expected to be available to sit a final exam during the exam period.
- School policy on requesting a rescheduled exam due to travel reasons is that such requests will NOT be granted. The university has very strict guidelines as to when a special/rescheduled exam can be given. The guidelines for this are similar to those for adverse circumstances
<https://www.newcastle.edu.au/current-students/learning/assessments-and-exams/adverse-circumstances>

Collaboration between students

- For any assessment in this course, **you may discuss ideas with your fellow students (do it!!), and you may help other students by pointing out mistakes (do it!!) in their submissions and discussing ways to correct them.**
- You must **not** present others' work as if it is your own – this is **plagiarism**.
- Any student found copying material from another student, or from an external source such as the Web, will be sent to SACO. Any student who knowingly gives a copy of material to another student will also receive a penalty and will be sent to SACO.
- See **Plagiarism - policy**, University of Newcastle in

<https://policies.newcastle.edu.au/document/view-current.php?id=35>

QUESTIONS??