

Design Patterns - Course Outline

SWEN 425: 2012 Trimester 2

This document sets out the workload and assessment requirements for SWEN 425. It also provides contact information for staff involved in the course. If the contents of this document are altered during the course, you will be advised of the change by an announcement in lectures and/or on the course web site. A printed copy of this document is held in the School Office.

Objectives

By the end of the course, students should be able to:

1. Describe and evaluate Object-Oriented Design patterns (BE Attributes [2\(b\)](#), [3\(e\)](#)).
2. Construct, deconstruct, and evaluate designs in terms of patterns (BE Attributes [3\(b\)](#), [3\(d\)](#)).
3. Write clearly and think critically about software design (BE Attribute [2\(b\)](#)).

Textbook

The textbook for SWEN 425 is: *Gamma, Helm, Johnson, Vlissides, 'Design Pattern', Addison-Wesley, 1995.*

Lectures, Tutorials, Laboratories, and Practical work

A [schedule](#) of lecture topics, and readings, will be updated as the course progresses.

Meetings for SWEN 425 are scheduled for: *Mon, Tue, Thu 15.10-16.00* in Alan MacDiarmid AM104.

The first meeting for this course will be on Monday 16 July. The teaching term runs from 16 Jul - 19 Oct 2012.

There are no timetabled tutorials, labs, or help desks.

Assignments

There will be two assignments that must be submitted using the online submission system.

The first assignment will be due at midnight on the last Friday before the mid-term break; the second will be due at midnight on the last Friday of the teaching term. Late assignments (without prior notice or reasonable excuse) may be penalised by up to one grade step per day. All assignments and the exam relate to all course objectives.

Workload

In order to maintain satisfactory progress in SWEN 425, you should plan to spend an average of at least *10* hours per week on this paper. A plausible and approximate breakdown for these hours would be:

- Course meetings: 3
- Readings: 3
- Assignments: 4

School of Engineering and Computer Science

The School office is located on level three of the Cotton Building ([Cotton 358](#)).

Staff

The course organiser for SWEN 425 is [James Noble](#).

- [Cotton 234](#)
- +64 4 463 6736
- kjx@ecs.vuw.ac.nz

Announcements and Communication

The main means of communication outside of lecture will be the SWEN 425 web area at http://ecs.victoria.ac.nz/Courses/SWEN425_2012T2/. There you will find, among other things, this document, the [lecture](#)

[schedule](#) and [assignment handouts](#). There will be no forum for SWEN 425.

Assessment

Your grade for SWEN 425 will be determined based on the following assessment weightings:

Item	Weight	Description
Assignment 1	20%	Re-write an existing pattern. 10 pages, any format with at least 10pt text.
Assignment 2	20%	EITHER Re-write an existing pattern. OR A case study of an existing system showing how it uses patterns. 10 pages, any format with at least 10pt text
Presentations	10%	2 @ 5% each. You'll need to show code for patterns and discuss why it is like it is
Final Examination	50%	Open book.

All items of assessment contribute to all objectives and their BE graduate attributes ([2\(b\)](#), [3\(b\)](#), [3\(d\)](#), [3\(e\)](#)).

Tests and Exams

The [timetable for final examinations](#) will be available from the University web site and will be posted on a notice board outside the faculty office. The final examination will be three hours long. The study and examination period for trimester T2 is 26 Oct - 17 Nov.

Plagiarism

Working Together and Plagiarism

We encourage you to discuss the principles of the course and assignments with other students, to help and seek help with programming details, problems involving the lab machines. However, any work you hand in must be your own work.

The [School policy on Plagiarism](#) (claiming other people's work as your own) is available from the course home page. Please read it. We will penalise anyone we find plagiarising, whether from students currently doing the course, or from other sources. Students who knowingly allow other students to copy their work may also be penalised. If you have had help from someone else (other than a tutor), it is always safe to state the help that you got. For example, if you had help from someone else in writing a component of your code, it is not plagiarism as long as you state (eg, as a comment in the code) who helped you in writing the method.

Mandatory Requirements

- Achieve at least a D grade in both assignments and the exam.

Passing SWEN 425

To pass SWEN 425, a student must satisfy mandatory requirements and gain at least a **C** grade overall.

Withdrawal

The last date for withdrawal from SWEN 425 with entitlement to a refund of tuition fees is Friday 27 July. The last date for withdrawal without being regarded as having failed the course is Friday 28 Sept -- though later withdrawals may be approved by the Associate Dean in special circumstances.

Rules & Policies

Find key dates, explanations of grades and other useful information at <http://www.victoria.ac.nz/home/study>.

Find out about academic progress and restricted enrolment at <http://www.victoria.ac.nz/home/study/academic-progress>.

The University's statutes and policies are available at <http://www.victoria.ac.nz/home/about/policy>, except qualification statutes, which are available via the Calendar webpage at <http://www.victoria.ac.nz/home/study/calendar> (See Section C).

Further information about the University's academic processes can be found on the website of the Assistant Vice-Chancellor (Academic) at <http://www.victoria.ac.nz/home/about/avcacademic>

All students are expected to be familiar with the following regulations and policies, which are available from the school web site:

[Grievances](#)

[Student and Staff Conduct](#)

[Meeting the Needs of Students with Disabilities](#)

[Student Support](#)

Academic Integrity and Plagiarism
Dates and Deadlines including Withdrawal dates
School Laboratory Hours and Rules
Printing Allocations
Expectations of Students in ECS courses

The School of Engineering and Computer Science strives to anticipate all problems associated with its courses, laboratories and equipment. We hope you will find that your courses meet your expectations of a quality learning experience.

If you think we have overlooked something or would like to make a suggestion feel free to talk to your course organiser or lecturer.
