

# SCIT

## School of Computing and Information Technology Faculty of Engineering & Information Sciences

Head of School Professor Willy Susilo, Student Resource Centre,

Tel: (02) 4221 3491

### CSCI213 Java Programming and Applications

#### Subject Outline

Spring Session 2015

#### Consultation Times:

Subject Coordinator	Dr Lei Ye
Telephone Number:	4221 3793
Email:	<a href="mailto:lei@uow.edu.au">lei@uow.edu.au</a>
Location:	3.211

Dr. Ye's consultation times during session:

Day	Time
Tuesday	15:30-17:30
Thursday	11:30-13:30

#### Subject Organisation:

Session:	Spring Session 2015, Wollongong Campus
Credit Points	6

Contact hours per week:	3lect+2hr lab
Lecture Times & Location:	Tue 17:30-19:30, 14-G01 Thu 10:30-11:30, 20.2
Tutorial Day, Time and Location can be found at:	<a href="http://www.uow.edu.au/student/timetables/index.html">http://www.uow.edu.au/student/timetables/index.html</a>

Students should check the subject's web site regularly as important information, including details of unavoidable changes in assessment requirements will be posted from time to time via Moodle space <http://www.uow.edu.au/student/> . Any information posted to the web site is deemed to have been notified to all students.

### **Subject Description:**

This subject provides:

1. an introduction to the Java language and some of its standard class libraries; and
2. experience with object oriented design and implementation techniques. Topics covered will include: use of a Java Integrated Development Environment, Java language, subset of the standard Java class packages (Standard Edition: windowing, graphics, TCP/IP networking, threads, database access, applet, media), security issues with portable code, Java "Micro Edition" (ME) and its associated packages and applications. Development of applications for different environments.

### **Subject Objectives:**

On successful completion of this subject, students will be able to:

1. Develop programs that utilize the Java programming language
2. Develop programs that exploit graphical user interfaces;
3. Implement programs using threads, networking, and Java database access libraries;

4. Implement programs with Java ME, graphics, and ?games? packages

## **Graduate Qualities:**

"Graduate Qualities" are the aspirational qualities that students will progressively develop through their learning experiences at UOW. These Graduate Qualities are not achieved in a single subject - their development is an ongoing process across an entire program of study. This subject will contribute to the following Graduate Qualities:

Informed

Problem solvers

Further information can be found at:

<http://eis.uow.edu.au/future-students/graduate-qualities/index.html>

## **Graduate Qualities Explained:**

Graduate Qualities	Covered in	Assessed in
Informed	Lecture	Exam
Problem Solvers	Lecture, assignments	Assignment/exam

## **Recent Improvements:**

SCIT is committed to ongoing improvements and is constantly monitoring feedback from students and staff.

## **Attendance Requirements:**

It is the responsibility of students to attend all lectures/tutorials/labs/seminars/ practical work for subjects for which you are enrolled. It should be noted that the amount of time spent on each 6 credit point subject should be at least 12 hours per week, which includes lectures/tutorials/labs etc.

Satisfactory attendance is deemed by the University, to be attendance at approximately 80% of the allocated

contact hours.

### **Optional Attendance Statement:**

Attendance rolls may be kept for lectures and laboratories. If you are present for less than 80% and would have otherwise passed you need to apply for student academic consideration, otherwise a TF (technical fail) grade may be recorded.

Students MUST attend their allocated Laboratory unless they have the written permission of the subject coordinator.

### **Method of Presentation:**

In order to maximize learning outcomes, it is strongly recommended that students attend all lectures.

### **Lecture Schedule:**

- Introduction to Java; Java language basics
- Java class hierarchies, inheritance, polymorphism and interfaces
- Java IO, exception handling and Java collections
- Java database programming
- Event driven programming and GUI with Swing
- Multithreading and networking
- Java mobile, graphics/game applications

### **Subject Materials:**

Any readings/references are recommended only and are not intended to be an exhaustive list. Students are encouraged to use the library catalogue and databases to locate additional readings.

### **Textbook(s):**

There is no textbook for this subject.

### Recommended References:

- C.S. Horstmann and G. Cornell, *Core Java* TM, *Volume I - Fundamentals*, 9<sup>th</sup> Edition, 2013, Prentice Hall.
- C.S. Horstmann and G. Cornell, *Core Java* TM, *Volume II - Advanced Features*, 9<sup>th</sup> Edition, 2013, Prentice Hall.

The library has a large variety of introductory Java texts that have differing expositional styles.

### Assessment:

This subject has the following assessment components.

ASSESSMENT ITEMS & FORMAT	% OF FINAL MARK	GROUP/INDIVIDUAL	DUE DATE
4 Programming Assignment	10% for each assignment	Individual	Advised by Lecturer
Laboratory exercises	10%	Individual	During Laboratories Weeks 2-13
Examination	50%	Individual	Examination Period

### Notes on Assessment:

All assignments are expected to be completed independently. Plagiarism may result in a FAIL grade being recorded for that assignment.

### Electronic Submission of Assessment Items:

Unless otherwise notified by the subject coordinator, all written assignments must be submitted electronically.

### **Assessment General:**

Submission of assessment items via email will not be accepted.

### **Technical Fail**

To be eligible for a Pass in this subject a student must achieve a mark of at least 40% in the final examination (20/50). Students who fail to achieve this minimum mark and would otherwise have passed may be given a TF (Technical Fail) for this subject.

### **Supplementary Exams**

1. A student whose overall performance results in a TF will only be granted a supplementary assessment task (e.g. a supplementary exam or a supplementary assignment) if approved by the school assessment committee.
2. A student who achieves a mark of 48-49% will normally be eligible for a grade of WS and a supplementary exam organised by the University. In this case, the maximum grade attainable is PS (Pass Supplementary) and a mark of 50%.
3. A student who has successfully applied for academic consideration will receive either:
  - a. A WD - Withheld Deferred Exam - and be allowed to sit only a supplementary exam, which will be

supervised by the University or

b. A WH ? Withheld ? and be allowed to sit a supplementary exam not supervised by the University or complete some other supplementary task

4. If a student is being investigated for misconduct and the investigation cannot be completed before the grades are released the student will receive a grade of WH until a mark is declared.

Calculators will not be allowed in the final exam.

#### **Procedure for the return of assessment items:**

All assignment results and comments will be sent back to students within 3 weeks of their submission.

Marks of the assignments will be uploaded on SOLS.

#### **Penalties for late submission of assessment items:**

Penalties apply to all late work, unless student academic consideration has been granted. Late submissions will attract a penalty of 25% of the assessment mark.

This amount is per day including weekends.

Work more than 4 days late will be awarded a mark of zero without marking.

#### **Reasonable Adjustment to Assessment**

A student with a disability may be entitled to reasonable adjustment to assessment.

A reasonable adjustment document is a recommendation that needs to be discussed and ratified by subject coordinators. Normal subject assessment requirements can only be adjusted with explicit written permission of the subject coordinator. In particular students cannot assume that a reasonable adjustment document bestows a right to deferred or supplementary exams.

#### **Tutorial/Lab Closure Policy**



If for any reason, the number of students in a tutorial or lab falls below a sustainable enrolment level, as determined by the Head of School, tutorials/labs offered for that subject may be collapsed or deleted.

You will have to attend the new tutorials/lab if this closure affects the one you are attending.

We will endeavour to make this decision no later than Week 4 of session.

## **Exams**

Exams will be run in accordance with UOW Exam rules, please refer to changes to exams and grades at:

<http://www.uow.edu.au/student/exams/UOW115867.html>

## **Supplementary Exams**

The School does not offer a supplementary exam to a student who has sat a scheduled exam.

Supplementary Exams will be dealt with in accordance with student academic consideration policy (

<http://www.uow.edu.au/about/policy/UOW060110.html> ) 9.2 Timing of Supplementary Exams.

While the School normally grants supplementary exams when the student does not sit the standard exam for an acceptable reason, each case will be assessed on its own merit and there is no guarantee a supplementary exam will be granted. If a supplementary exam is granted, you will normally be notified via SOLS Mail the time and date of this supplementary exam. You must follow the instructions given in the email message.

Please note that if this is your last session and you are granted a supplementary exam, be aware that your results will not be processed in time to meet the graduation deadline.

## **Student Academic Consideration Policy**

The School recognises that it has a responsibility to ensure equity and consistency across its subjects for all

students. Sometimes, in exceptional circumstances, students need to apply for student academic consideration in order to complete all assessable work.

The University applies strict criteria to the granting of student academic consideration. Before applying for student academic consideration, students should carefully read the University's policy which can be found at: <http://www.uow.edu.au/about/policy/UOW058721.html>

## **Plagiarism**

### **When you submit an assessment task, you are declaring the following**

1. It is your own work and you did not collaborate with or copy from others.
2. You have read and understand your responsibilities under the University of Wollongong's policy on plagiarism.
3. You have not plagiarised from published work (including the internet). Where you have used the work from others, you have referenced it in the text and provided a reference list at the end to the assignment.

Students must remember that:

- Plagiarism will not be tolerated.
- Students are responsible for submitting original work for assessment, without plagiarising or cheating, abiding by the University's Academic Integrity and Plagiarism Policy as set out in the University Handbook, the University's online Policy Directory and in Faculty handbooks and subject guides. Re-using any of your own work (either in part or in full) which you have submitted previously for assessment is not permitted without appropriate acknowledgement - Plagiarism has led to the expulsion from the University.

## **Coursework Student Academic Complaints Policy**

The School aims to provide a fair, equitable and productive learning environment for all its students. The Coursework Student Academic Complaints Policy ( <http://www.uow.edu.au/about/policy/UOW058653.html> ) seeks to support the achievement of this goal by providing a transparent and consistent process for resolving student academic complaints.

Any student who has a complaint over a result should obtain a Faculty of Engineering and Information Sciences Coursework Student Academic Review/Complaint form ( <http://www.uow.edu.au/student/complaints/UOW008298.html> ) from the EIS Central. The student should firstly take the form to the marker/lecturer to discuss the matter and, if the student is still not satisfied, s/he should take the next step as outlined on the form.

Once the complaint has been considered by the Faculty, if the student still feels the situation has not been fully resolved s/he may refer the matter to the Student Ombudsman.

**Relevant University Policies, procedures and students services:**

For more information students must refer to the Course Handbook, relevant online references or consult the UOW General Course Rules in full <http://www.uow.edu.au/about/policy/UOW058680.html> which contains a range of policies on educational issues and student matters.

This outline should be read in conjunction with the following:

Code of Practice - Teaching and Assessment: <a href="http://www.uow.edu.au/about/policy/UOW058666.html">http://www.uow.edu.au/about/policy/UOW058666.html</a>
Code of Practice-Honours: <a href="http://www.uow.edu.au/about/policy/UOW058661.html">http://www.uow.edu.au/about/policy/UOW058661.html</a>
Key Dates: <a href="http://www.uow.edu.au/student/dates/index.html">http://www.uow.edu.au/student/dates/index.html</a>
Course Progress Requirements: <a href="http://www.uow.edu.au/student/cp/index.html">http://www.uow.edu.au/student/cp/index.html</a>
Academic Grievance Policy (Coursework and honours students):  <a href="http://www.uow.edu.au/about/policy/UOW058653.html">http://www.uow.edu.au/about/policy/UOW058653.html</a>
Student Charter: <a href="http://www.uow.edu.au/student/charter/">www.uow.edu.au/student/charter/</a>
Occupational Health and Safety: <a href="http://www.uow.edu.au/about/policy/UOW016894.html">http://www.uow.edu.au/about/policy/UOW016894.html</a>
Human Research Ethics Committee: <a href="http://www.uow.edu.au/research/ethics/human/index.html">http://www.uow.edu.au/research/ethics/human/index.html</a>
General Enquires: EIS Central Build 4, Ground floor, Room 12 Phone: 4221 3491  Faculty of Engineering & Information Sciences current students website: <a href="http://eis.uow.edu.au/current-students/">http://eis.uow.edu.au/current-students/</a>
Student Support Services: <a href="http://www.uow.edu.au/student/services/index.html">http://www.uow.edu.au/student/services/index.html</a>  Faculty SEDLO (Student Support & Peer Learning Officer)  Mitz Perez - Build 4 Room 105 Phone 4221 3833 Mon - Wed, <a href="mailto:mitz-perez@uow.edu.au">mitz-perez@uow.edu.au</a>
Information Technology Services and Policies: <a href="http://www.uow.edu.au/its/accounts/index.html">http://www.uow.edu.au/its/accounts/index.html</a>
Student Representatives: <a href="http://eis.uow.edu.au/current-students/get-involved/studentreps/index.html">http://eis.uow.edu.au/current-students/get-involved/studentreps/index.html</a>
Academic Integrity and Plagiarism Policy: <a href="http://www.uow.edu.au/about/policy/UOW058648.html">http://www.uow.edu.au/about/policy/UOW058648.html</a>

Student Academic Consideration Policy: <http://www.uow.edu.au/about/policy/UOW058721.html>

Rules for student conduct: <http://www.uow.edu.au/about/policy/UOW058723.html>

Code of Practice - Research: <http://www.uow.edu.au/about/policy/UOW058663.html>

Code of Practice? Student Professional Experience: <http://www.uow.edu.au/about/policy/UOW058662>

IP Student Assignment of Intellectual Property Policy:

<http://www.uow.edu.au/about/policy/UOW058690.html>

Research Misconduct Policy: <http://www.uow.edu.au/about/policy/UOW058715.html>

Non-Discriminatory Language Practice and Presentation:

<http://www.uow.edu.au/about/policy/UOW058706.html>

Ownership of Work & Intellectual Property Policy:

<http://www.uow.edu.au/handbook/generalcourserules/UOW028651.html>

Netiquette Guide: <http://www.uow.edu.au/student/elearning/netiquette/index.html>

Library Services: <http://www.library.uow.edu.au> Bulding 16, Phone: 4221 3548

Complete Start Smart: <http://www.uow.edu.au/student/services/fye/resources/startsmart/>

Subject Outlines:

<https://ssl.informatics.uow.edu.au/subjectoutlines/CSCI/Current/>