



The University of Southern Queensland

## Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>. Please consult the web for updates that may occur during the year.

### Description: Object-Oriented Programming with Java

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
CIS	3001	86358	1, 2009	ONC	1.00	Toowoomba

<b>Academic group:</b>	FOBUS
<b>Academic org:</b>	FOB005
<b>Student contribution band:</b>	2
<b>ASCED code:</b>	020103

### STAFFING

Examiner: Angela Howard  
Moderator: Srecko Howard

### OTHER REQUISITES

Students who have not completed CIS1001 or CSC1401 at USQ will need to have foundation skills in programming logic. Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.

### SYNOPSIS

This course introduces the student to the fundamentals of object-oriented programming using the Java programming language. It lays a solid foundation for the development of practical business solutions in an object-oriented environment.

### OBJECTIVES

The course objectives define the student learning outcomes for a course. The assessment item/s that may be used to assess student achievement of an objective is/are shown in parentheses after each objective. On successful completion of this course, students should be able to:

1. an understanding of the principles of object oriented programming and how to apply them when programming Java (Assignments, Examination)
2. a sound working-knowledge of the syntax and semantics of the Java language (Assignments, Examination)
3. the ability to develop object oriented programming applications that make use of the extensive Java libraries (Assignments, Examination)
4. the ability to write clearly, logically, and concisely at a high level of proficiency; these skills are required both in assignment work and in the examination (Assignments, Examination).

## TOPICS

	Description	Weighting (%)
1.	Object oriented principles - introduction to object-oriented concepts such as inheritance encapsulation, polymorphism, messages passing, abstraction, etc	35.00
2.	Basic Java language constructs - data types, control constructs, arrays, I/O handling, exception classes and objects	40.00
3.	GUI programming - components and containers, events and event handling, interfaces	20.00
4.	Recursion, Java Beans, Multithreading	5.00

## TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

CIS3001 study package available from the USQ Bookshop.

Savitch, W 2008, *Absolute Java*, 3rd edn, Pearson/Addison Wesley, Boston, Massachusetts.

## REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Appropriate IDEs will be advised on the discussion board for this course.

Barnes, DJ & Kolling, M 2009, *Objects first with Java: a practical introduction using BlueJ*, 4th edn, Prentice Hall, Harlow, England.

Cohoon, J & Davidson, J 2006, *Java 5.0 program design*, McGraw Hill, Boston, Massachusetts.

Deitel, PJ & Deitel, HM 2007, *Java: how to program*, 7th edn, Prentice-Hall, Upper Saddle River, New Jersey.

Doke, ER, Satzinger, JW & Rebstock-Williams, S 2002, *Object-oriented application development using Java*, Course Technology, Boston, Massachusetts.

Horstmann, C 2003, *Computing concepts with JAVA essentials*, 3rd edn, Wiley, New York.

Savitch, C & Carrano, FM 2008, *Java: introduction to problem solving and programming*, 5th edn, Prentice Hall, Upper Saddle River, New Jersey.

Wang, PS 2003, *Java with object-oriented programming*, 2nd edn, Thomson/Brooks Cole, Pacific Grove, California.

Wang, PS 2008, *Java with object-oriented and generic programming*, Course Technology, Boston, Massachusetts.

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	40.00
Laboratory or Practical Classes	14.00
Lectures	28.00
Private Study	70.00
Tutorials	14.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	100.00	5.00	16 Mar 2009
ASSIGNMENT 2	100.00	5.00	20 Apr 2009
ASSIGNMENT 3	100.00	20.00	01 Jun 2009
2 HOUR EXAMINATION	120.00	70.00	END S1 (see note 1)

### NOTES

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)
- 3 Penalties for late submission of required work:  
If students submit assignments after the due date without prior approval of the examiner, then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded.
- 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
- 5 Method used to combine assessment results to attain final grade:

The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.

- 6 Examination information:  
This is a closed examination. Candidates are allowed to bring only writing and drawing instruments into the examination.
- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
- 8 University Regulations:  
Students should read USQ Regulations 5.1 Definitions, 5.6 Assessment, and 5.10 Student Academic Misconduct for further information and to avoid actions which might contravene university regulations. These regulations can be found at <http://www.usq.edu.au/corporateservices/calendar/part5.htm>. Students should also read the Faculty of Business Policies and Procedures which can be found at <http://www.usq.edu.au/business/aboutfob.htm>.

## ASSESSMENT NOTES

- 1 Assignments: (i) The due date for an assignment is the date by which a student must submit the assignment to the USQ. (ii) Students must retain a copy of each assignment submitted for assessment. This must be produced within 24 hours if required by the examiner. (iii) In accordance with university policy, the examiner may grant an extension of the due date of an assignment in extenuating circumstances. (iv) The examiner will normally only accept assessments that have been written, typed or printed on paper-based media. (v) In the event that a due date for an assignment falls on a local public holiday in their area, such as a show holiday, the due date for the assignment will be the next day. Students are to note on the assignment cover the date of the public holiday for the examiner's convenience.
- 2 Course weightings: Course weightings of topics should not be interpreted as applying to the number of marks allocated to questions testing those topics in an examination paper.
- 3 Referencing in assignments: Harvard (AGPS) is the referencing system required in this course. Students should use Harvard (AGPS) style in their assignments to format details of the information sources they have cited in their work. The USQ library provides advice on how to format information sources using this system. Details can be found at [http://www.usq.edu.au/library/help/ehelp/ref\\_guides/harvard.htm](http://www.usq.edu.au/library/help/ehelp/ref_guides/harvard.htm) and [http://www.usq.edu.au/library/help/ehelp/ref\\_guides/harvardonline.htm](http://www.usq.edu.au/library/help/ehelp/ref_guides/harvardonline.htm).
- 4 Make-up work: Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade: IM (Incomplete - Make up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.
- 5 Deferred work: Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded: IDS (Incomplete - Deferred Examination); IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).

## **OTHER REQUIREMENTS**

- 1 Computer, e-mail and Internet access: Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at <http://www.usq.edu.au/ict/students/standards/default.htm>.
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