Description: Java Programming

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
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</thead>
<tbody>
<tr>
<td>CIS</td>
<td>3001</td>
<td>40548</td>
<td>1, 2005</td>
<td>ONC</td>
<td>1.00</td>
<td>Toowoomba</td>
</tr>
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Academic group: FOBUS
Academic org: FOB005
Student contribution band: 2
ASCED code: 020103

STAFFING
Examiner: Angela Howard
Moderator: Bob Wicks

REQUISITES
Pre-requisite: CIS1001 or CSC1401

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
On successful completion of this course students will be able to demonstrate:

1. an understanding of the principles of object oriented programming and how to apply them when programming Java;
2. a sound working-knowledge of the syntax and semantics of the Java language;
3. the ability to develop object oriented programming applications that make use of the extensive Java libraries;
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 final examination

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Object oriented principles - introduction to object-oriented concepts such as inheritance encapsulation, polymorphism, messages passing, abstraction, etc.</td>
<td>15.00</td>
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<tr>
<td>2. Basic Java language constructs - data types, control constructs, arrays, I/O handling, exception handling, classes and objects</td>
<td>50.00</td>
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</tbody>
</table>
3. GUI Programming - components and containers, events and event handling, interfaces 15.00
4. Applet and HTML Programming 10.00
5. Exception Handling & Multithreading 10.00

**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.
(international edition)

**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.

Borland, J *Builder 6 Software* (optional).

**STUDENT WORKLOAD REQUIREMENTS**

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
<td>40.00</td>
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<tr>
<td>Laboratory or Practical</td>
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<tr>
<td>Classes</td>
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<tr>
<td>Lectures</td>
<td>28.00</td>
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<tr>
<td>Private Study</td>
<td>70.00</td>
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<td>Tutorials</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
</tr>
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<tbody>
<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
<td>10.00</td>
<td>09 May 2005</td>
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<tr>
<td>ASSIGNMENT 2</td>
<td>100.00</td>
<td>15.00</td>
<td>30 May 2005</td>
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<tr>
<td>3 HOUR EXAMINATION</td>
<td>180.00</td>
<td>75.00</td>
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</table>

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. If you are an international student in Australia you are advised to attend all classes at your campus. Failure to attend may infringe the conditions of your student visa.

2. Requirements for students to complete each assessment item satisfactorily:
   To complete the assignments satisfactorily, students must obtain at least 50% of the marks available for the assignments in aggregate. To complete the examination satisfactorily, students must obtain at least 50% of the marks available for the examination.

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a penalty of 20% of the total marks gained by the student for the assignment will apply for each working day late.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must attempt all of the summative assessment items, achieve an aggregated mark of at least 50% in the total marks allocated for the assignments, achieve at least 50% in the examination, and at least 50% of the available weighted marks for the summative assessment items. Students who do not qualify for a passing grade may, at the discretion of the Examiner, be awarded a supplementary examination and/or assigned additional work to demonstrate to the examiner that they have achieved the required standard. It is expected that such students will have gained at least 45% in the examination and 50% of the total marks available for all summative assessment items.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the weighted aggregate of the marks (or grades) 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
Academic Misconduct for further information and to avoid actions which might
contravene University Regulations. These regulations can be found at the URL
http://www.usq.edu.au/corporateservices/calendar/part5.htm. Students should also read
the Faculty of Business Guide to Policies and Procedures of the Faculty which can be

ASSessment NOTES

1 Assignments: (i) The due date for an assignment is the date by which a student must
despatch the assignment to the USQ. The onus is on the student to provide proof of the
despatch date, if requested by the Examiner. (ii) Students must retain a copy of each item
submitted for assessment. This must be produced within 24 hours if required by the
Examiner. (iii) The Examiner may grant an extension of the due date of an
assignment in extenuating circumstances. Students may apply for an extension before
the due date or include an application with the submitted assignment after the due date.
Such applications should be in writing and include supporting documentary evidence.
The authority for granting extensions rests with the relevant Examiner. (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: Unless otherwise directed by the Examiner, all written
and oral assignments submitted by students must conform to the guidelines laid out in
the 'Communication skills handbook: How to succeed in written and oral
communication'. Any work not prepared in accordance with these guidelines may be
subject to penalty or requirement for resubmission.

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).

6 Appeals: Any appeal against the award of a grade in the course will be conducted in
accordance with University Regulations. These Regulations are published in the
University Handbook.
OTHER REQUIREMENTS

1. E-mail and Internet Access: Students will require access to e-mail and Internet access to USQConnect for this course.