

# CIS212a/CS218 Coursework (2002/2003)

## Programming: Advanced Topics and Techniques

*Hand out lecture Thursday 14 November 2002*

*Hand in lecture Thursday 12 December 2002*

**Note: All coursework must be signed in at the beginning of the lecture.**

**Student Name(s):**

**Total Marks:**

### 1. Report

- (a) Use the cover page provided ..... [3]
- (b) Introduction
  - i. analysis and plan ..... [3]
  - ii. class diagram ..... [3]
  - iii. class/method list with description ..... [3]
  - iv. working class/method list ..... [3]
- (c) Test data ..... [3]
- (d) Comments ..... [3]
- (e) (*bonus*) Reminder and Web address ..... [3]
- (f) Instruction ..... [3]
- (g) Attachment and References ..... [3]

### 2. Program

- (a) Graphical user interface ..... [5]
- (b) Event driven ..... [5]
- (c) Appropriate undevelopped parts ..... [5]
- (d) Object-oriented ..... [5]
- (e) Options
  - i. Viewing books
    - A. display/search/other ..... [10]
    - B. circular/other ..... [10]
  - ii. Maintaining books
    - A. searching/sort/other ..... [10]
    - B. insert/delete/count/other ..... [10]
- (f) Style
  - i. classes ..... [2]
  - ii. methods/objects ..... [2]
  - iii. variables ..... [2]
  - iv. encapsulation ..... [2]
  - v. using reference/linked structure ..... [2]