



Aims/General Learning Outcomes

- Design, build and program a computer controlled Robot.
- Plan, write and test computer programs.
- Plan, create and manage a database.

Course Content

The course is assessed by written plus practical tasks or by an assignment. There are four assignments with approximate due dates shown on the recording sheet at the end of this document.

1. Robotics (Unit 5967, ver. 5, 5 credits)

Design, program, and assemble a computer controlled robot using kit sets.

2. Use Technology (Unit 5947, ver. 5, 3 credits)

Analyse a specified problem, propose options, and implement the preferred option using computer technology.

3. Programming (Unit 18741, ver. 2, 6 credits)

Create a brief to produce a structured computer program, plan, write code to design specifications, test, modify and document the computer program to provide a solution.

4. GUI Programming (Unit 18749, ver. 2, 5 credits)

Plan, create, test and complete user documentation for a simple Graphical User Interface program .

5. Flat-file Database for an Organisation (Unit 2787, ver. 5, 5 credits)

People credited with this unit standard are able to design, create, test, operate, evaluate, and document a relational database to provide a solution for an organisation.

6. Computer Macros (Unit 5954, ver. 5, 2 credits)

Design, create, test, and document a macro to automate processes in a computer application.

The following may be attempted by independent learning using on-line tutorials and exercises:

1. Computer Components (Unit 2783, ver. 5, 3 credits)

Demonstrate knowledge of the components of personal computer systems.

2. Relational Database for an Organisation (Unit 18742, ver. 3, 15 credits)

People credited with this unit standard are able to plan and design, create, test, operate and evaluate a relational database to provide a solution for an organisation.

Assessment Details

This course is Unit Standards based. Consequently, all assessment is internal. Wherever possible, all evidence for the Unit Standards will be submitted electronically. All written work will need to be completed either on-line or in a word-processed document or scanned (and checked for clarity). Evidence can be submitted by digital photographs or short videos. The Results Record Sheet gives approximate times for the assessments. The actual dates/deadlines will be confirmed with a minimum notice period of one week.

Appeals

Any queries about an assessment decision should be made to your class teacher when the assessment is handed back. Any formal appeals should be made, **within one week** of the assessed work being returned, to the Head of Computing, Mr B Goulter, or the Principal's Nominee, (Ms Lynch in Term 1, Mrs Butler in Terms 2-4), who will investigate it further.

Work done in pencil or which has 'white-out' corrections cannot be reconsidered for appeals. *Appeals need to be made within one school week of receiving a result.*

Further assessment opportunities

There will be no further assessment opportunities for any *assignment*. Students will have an opportunity to resubmit an *assignment* one week after the original due date.

A reassessment opportunity will be provided for Unit 2783 if the student can demonstrate that they have undertaken the necessary study. It is expected that this will be between 1 and 3 weeks after the original assessment.



Computing – Systems Technology, CST334

2009

Results Record Sheet – CST334

All assessments are assessed by written plus practical tasks or by an assignment. You are expected to keep track of your results from each assessment you take.

Std	Title	Level	Credits	Assessment Type	Timing	Result
5967	Robotics.	3	5	Assignment	Term 1, Week 7	
5945	Use technology to solve a problem.	3	3	Assignment	Due: Term 3, Week 3	
18741	Programming.	3	6			
18749	GUI programming.	3	5			
2787	Flatfile database.	3	5	Assignment	Due: Term 4, Week 1	
5954	Macros.	3	2	Assignment	Due: Term 4, Week 4	
	Total Credits		26			

Independent study using an on-line Learning Management System

Std	Title	Level	Credits	Assessment Type	Timing	Result
2783	Components of a computer.	3	3	Written (Reassessment)	By request (After evidence of further study)	
18742	Relational database.	4	15	Assignment	Due: Term 4, Week 2	
	Total Credits		18			