



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: Software Development Tools

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
CSC	2408	96079	3, 2009	EXT	1.00	Toowoomba

Academic group:	FOSCI
Academic org:	FOS003
Student contribution band:	2
ASCED code:	020305

STAFFING

Examiner: David Lai
Moderator: Richard Watson

OTHER REQUISITES

Recommended pre-requisites: CSC1401 or USQIT16 or Students must be enrolled in one of the following programs: MPIT or MSBN

RATIONALE

Students often need to use a selection of software tools when undertaking programming assignments, especially in second and third year courses. This course introduces students to a basic set of tools used in developing software, thus reducing duplication of presentation in other courses, and ensuring that all students are familiar with available tools before undertaking advanced level courses.

SYNOPSIS

In this course, students will be introduced to a range of software development tools. Particular attention will be given to configuration management tools (used to build programs from component parts, and to manage the development of the components), common scripting languages and debuggers. The emphasis will be upon tools available under the Unix family of operating systems, though most of the tools are available under other operating environments. A range of the more commonly used general Unix tools will also be covered.

OBJECTIVES

On completion of this course students will be able to:

1. demonstrate the ability to use a range of software development tools (All assessment items);
2. be familiar with the Unix/Linux operating systems and facilities (All assessment items).

TOPICS

	Description	Weighting (%)
1.	Installing Linux	5.00
2.	Standard Unix tools	35.00
3.	Shell Scripting	12.00
4.	Configuration Management	35.00
5.	Debuggers	5.00
6.	Document Preparation	8.00

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).

Although subject to change, at this stage, it is expected students may require access to Semester 2, Department of Mathematics and Computing DVDROM SET, 2007 (available from the USQ Bookshop). This DVD set contains Semester 2 course material, and Windows software relevant to this course. For more information about the DVD sets and their use, please refer to <http://www.sci.usq.edu.au/dvdrom> and the course web site.

Ensure that you receive the 2009 Introductory Book, Study Book and Selected Readings in your study package.

Mark G. Sobel 2005, *A Practical Guide to Linux: Commands, Editors, and Shell Programming*, 1st edn, Prentice Hall,

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.

Abrahams, Paul & Larson, Bruce 1996, *Unix for the impatient*, 2nd edn, Addison-Wesley, Reading, Mass.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Examinations	2.00
Private Study	169.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ASSIGNMENT 1	60.00	15.00	07 Dec 2009 (see note 1)
ASSIGNMENT 2	60.00	15.00	04 Jan 2010
ASSIGNMENT 3	40.00	10.00	25 Jan 2010
2 HR RESTRICTED EXAMINATION	100.00	60.00	END S3 (see note 2)

NOTES

1. The Examiner advises that for Assignments 1, 2, and 3, the deadline is 9.00 a.m. AEST on that particular date.
2. Examination dates will be available during the semester. Please refer to the examination timetable when published.

IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:
There are no attendance requirements for this course. However, it is the students' responsibility 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 complete each of the assignments satisfactorily, students must obtain at least 50% of the marks available for each assignment.
- 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. No assignments will be accepted after model answers have been posted.
- 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:
Candidates are allowed access only to specific materials during a Restricted Examination. The only materials that candidates may use in the restricted examination for this course are: writing materials (non-electronic and free from material which could give the student an unfair advantage in the examination). Students whose first language is not English, may, take an appropriate unmarked non-electronic translation dictionary (but not technical dictionary) into the examination. Dictionaries with any handwritten notes will not be permitted.
- 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> or in the current USQ Handbook.