

GRADUATE SCHOOL OF ENGINEERING

Director: Professor Liangchi Zhang

Building J13, University of Sydney
NSW 2006 Australia
Telephone: (02) 9351- 7084
Facsimile: (02) 9351-7082
Email: J.Harty@eng.usyd.edu.au

Report

Replacement of two units of study in two established MES programs

Due to the curriculum change in Faculty of Law and School of IT, two units of study, COMP5122 Multimedia Human Computer Integration and LAWS 6044 Environmental Law and Policy, which were originally used in:

- MES (Automation and Manufacturing Systems)
- MES (Manufacturing Knowledge Integration and Project Management)

no longer exist and have to be replaced by others. After a discussion with the Faculty of Law and School of IT, the GSE proposes to replace COMP5122 with COMP5212, and replace LAWS6044 with LAWS6252. The course descriptions of these units of study are attached below.

The GSE requests the Faculty to approve the above proposed replacement.

COMP 5212 Software Construction

6 credit points. **Session:** 1, 2. **Classes:** 2 lec & 1 tut/wk. **Assessment:** Assignments, written exam.

This is a programming unit of study focusing on the C language, with emphasis on the individual producing code that works correctly. Topics include: the memory model, and errors associated with that (including pointers, malloc/free, sizeof, stack vs heap); coding simple dynamic data structures (linked lists, binary trees); debugging; threads, and errors associated with them; use of Unix tools for managing programming activities such as testing; learning from manual entries for standard library functions and unix commands.

Objectives: On completion of this unit students will have acquired programming skills and techniques applicable to the development of software used in areas such as networking, computer engineering, language translation, and operating systems.

LAWS 6252 Legal Reasoning & the Common Law System

6 credit points. Grad Dip Env Law, Grad Dip H L, Grad Dip I L, Grad Dip Pub H L, M A L P, M B L, M Env Law, M Envi Sci Law, M H L, M I L, M Int Bus & Law, M L L R. TBA. **Session:** S1 Intensive, S2 Intensive, Semester 1. **Assessment:** attendance and participation at workshops (30%) and assignment on case analysis, statutory interpretation and substantive legal principle (70%). NB: Compulsory for health law, environmental law, MLLR, MALP, MIR&HRM, MEnvSciLaw, MIntBus&L and MBL candidates undertaking tax units who do not have a qualification in accountancy or who have not completed a legal studies unit as part of a degree in business or commerce within a common law jurisdiction. This unit is a pre-requisite for specified law units. Candidates enrolled in other courses may seek permission to undertake this unit as an optional.

This is a compulsory unit for all postgraduate students without a legal qualification entering:

- Masters of Administrative Law and Policy
- Masters of Environmental Law
- Masters of Health Law
- Masters of Environmental Science and Law
- Masters of International Business and Law
- Masters of Labour Law and Relations
- Graduate Diplomas offered in these programs

The unit has been designed to equip candidates with the necessary legal skills and legal knowledge to competently apply themselves in their chosen area of law. Instruction will cover the legislative process; the judiciary and specialist tribunals; precedent; court hierarchies; legal reasoning; constitutional law; administrative law; contracts; and torts. Some elements of the unit will be tailored in accordance with the requirements of the particular specialist programs.