

MIT / MCIT - E-Commerce

Note that, the material presented in this document will serve for both the re-training master (MCIT – E-Commerce, 18 months or 2 years) and the specialization master (MIT – E-Commerce, 1 year). Details of what courses and schedules apply to for each program will be described in a separate document.

Brief Description

This program provides specialised education in the main aspects of e-enterprise computing, including B2C and B2B application engineering. Typical applications include e-government, e-banking, and e-health. In order to take opportunities in the emerging digital economy, organizations are re-inventing themselves as e-enterprises. E-commerce systems engineering require the understanding of business processes requirements (e.g., security, public policy, and project management aspects) and the effective use of the IT infrastructure to implement such business processes. The development of e-enterprise systems must take into consideration technological, managerial, and legal aspects. More importantly, this program will respond to the demand for IT professionals to provide necessary IT support in "digital age" organizations in Australia and elsewhere. We will seek to establish links with industry and government agencies (e.g., via project mentoring).

The program requires core courses and electives. The first category of core courses provide the IT foundations for building e-enterprise systems (see list A). In fact these are the courses that make the program different from any e-business master at UNSW (or elsewhere in Australia). The 2 other core courses are from interdisciplinary fields, namely, e-commerce management (see list B) and e-commerce policy (see list C) aspects. They will help students understand management, legal, and policy aspects of e-commerce, and effectively integrate these aspects in developing e-enterprise systems.

An important core course of this program is the e-enterprise project (see list D). This project will give students the opportunity to put into practice what they learned in the core subjects. It requires the design and implementation of a large e-enterprise system such as amazon.com or expedia.com. Completion of all core courses (A, B, and C) is required before doing the project (may be students can do the project after courses in category A only).

The purpose of the electives is to allow students deepening their skills. Students may choose up 2 extra courses related e-commerce management (see list B) and e-commerce policy (see list C) aspects if they wish. This option will allow students to deepen their knowledge in business-oriented aspects. They can also select from a list of IT oriented courses (see list E).

A. Core e-Commerce Technology Requirements (the number varies depending on MIT or MCIT)

COMP9021 Principles of Programming
COMP9094 Data Structures and Algorithms
COMP9311 Database Systems
COMP9321 E-Commerce Systems Implementation Infrastructure
COMP9322 e-Commerce Systems Engineering

B. Core e-Commerce Management Requirements (1 from this list)

INFS5885 Managing E-Business Technology

INFS5985 Managing Electronic Commerce

INFS5991: Decision Support Systems

INFS5848 Information Systems Project Management

IMGT5445 Information Management and Business Intelligence for Organisations and Industry

C. Core e-Commerce Policy Requirements (1 from this list)

LEGT5421 E-Business and the Law

LEGT5563 Technology, Information and the Law

IMGT5410: Knowledge and Society

D. Core e-Commerce Project Requirements

COMP9323 e-Enterprise Project

E. Advanced Requirements

The remaining courses may be taken as electives from the following list. 2 of the electives may be further courses from the groups B or C. List of electives may be also taken from the following list of technology oriented courses:

INFS5984 Information Systems Security

COMP9441 Cryptography and Security

COMP4001 Object-Oriented Software Development

COMP9511 Human Computer Interaction

COMP9331 Computer Networks and Applications

COMP9414 Artificial Intelligence

COMP9511 Human Computer Interaction

COMP4416 Intelligent Agents

COMP9031 Internet Computing

COMP9314 Next Generation databases

COMP9117 Architecture of Software Systems