

## Advanced Diploma of Computer Systems Engineering

UEE60407, CRICOS 065033J

### Overview

This advanced course provides students with the knowledge and skills for high-level management of computer systems, networks, internet/intranet infrastructure, design, programming and maintenance, building on the skills learnt in the Diploma of Computer Systems Engineering. Students are prepared for the internationally recognised CISCO Certified Network Associate (CCNA) certification, Comp TIA A+, Cisco Cabling, Microsoft MCTS Server 2008 and Adobe Dreamweaver Developer certifications. Graduates are highly sought after by employers in well paid and exciting careers. Diploma can be taken alone as a 1.5 year course.

### Duration

2 years

### Cost (2012 intake)

Year 1 \$10,400 + \$200 Materials Fee

Year 2 \$10,600 + \$112 Materials Fee

### Campus

Dandenong, Frankston or Berwick

### Admission

Equivalent Academic IELTS 5.5

Equivalent Year 11

### Intake

February/July

**Career Opportunities** Graduates work in computer systems design, manufacturing, installation, commissioning, testing, servicing and technical sales within the Computer industry. The computer industry offers employment opportunities for both males and females. Prospective employers include government, semi-government, and private organisations such as Telstra, Department of Defence, QANTAS, CSIRO, ABC, NEC, Bosch, Varian, United Energy, Optus, etc.

**Employment Opportunities** Advanced Diploma of Computer Systems Engineering develops skills in:

- Planning, analysis and design tasks.
- Management and supervision.
- Analysing, fault finding and modification of computer systems and equipment.
- Installation, testing and commissioning of computer systems and equipment.
- Identification of customer/client computer systems needs.
- Using high-level diagnostic tools to establish the relationship between hardware and software.

### Further Study

After completion of the Advanced Diploma students can study the Advanced Diploma of Information Technology (Network Security) at Chisholm or other computing courses at various universities.

## Units

### YEAR 1 – SEMESTER 1

#### Management

Implement and monitor OHS policies and procedures

Participate in development and follow a personal competency development plan

Ensure team effectiveness (1)

### **Web Programming**

Set up and create content for a web server (1)  
Develop basic web pages for engineering applications (1)

### **Networking**

Use engineering applications software  
Set up and configure basic local area network  
Set up wireless capabilities

### **PC Installation + Repair**

Apply OHS practices in the workplace  
Install and configure a computer operating system and software  
Assemble, set up and test personal computers

Document occupational hazards and risks in computer systems  
Support computer hardware and software (1)

### **Electrotechnology**

Dismantle, assemble and fabricate electrotechnology components  
Solve problems in extra-low voltage single path circuits

## **YEAR 1 – SEMESTER 2**

### **Management**

Ensure team effectiveness (2)

### **Web Programming**

Set up and create content for a web server(2)  
Develop basic web pages for engineering applications (2)

### **Network Administration**

Install and administer Unix based computers

### **Networking**

Install and configure internetworking systems

### **PC Installation and Repair**

Support computer hardware and software (2)  
Integrate multiple computer operating systems on a client server network

## **YEAR 2 - SEMESTER 1**

### **Web Programming**

Evaluate and modify programs written in object oriented code (1)  
Develop object oriented code (1)

### **Workplace**

Contribute to risk management in electrotechnology systems  
Manage workplace information systems

### **Network Administration**

Administer user networks

Develop network services

**Networking**

Design and implement internetworking systems

Commission computer systems

Modify-redesign of computer system

Design and develop electronics/computer systems projects

**YEAR 2 – SEMESTER 1**

**Project**

Develop design briefs for electrotechnology projects

Manage electronics/computer systems projects

**Web Programming**

Evaluate and modify programs written in object oriented code (2)

Develop object oriented code (2)

**Network Administration**

Design and manage enterprise networks

**Networking**

Design and implement internetworking systems - advanced routing

Set up and test biometric devices

**Need more information? Want to apply?**

Please speak with an authorised Chisholm Institute agent, or:

Web: [www.chisholm.edu.au/international](http://www.chisholm.edu.au/international)

Email: [international.admissions@chisholm.edu.au](mailto:international.admissions@chisholm.edu.au)

Phone: +61 3 9212 5040

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Please note: All information is correct at time of publication (November 2011). Chisholm Institute reserves the right to alter this information and/or withdraw courses listed.