NEW Associate Degree in Engineering Technology (Network Engineering)
Melbourne, Australia

The Associate Degree in Engineering Technology (Network Engineering) is a new 2 year qualification designed to provide students guaranteed entry into either of the following degree programs:

- Bachelor of Engineering (Network Engineering)
- Bachelor of Engineering (Computer Systems Engineering)

On completion of the 2 year program students will receive an Associate Degree qualification. Some students may elect to enter the workforce after the 2 years of study having completed a number of vocational units that are relevant to the network engineering industry.

Network Engineering is one of the emerging areas of engineering driven by the rapid growth in the field of network and internet. This program provides theoretical and practical knowledge & skills for design, installation, configuration, maintenance, analysis, troubleshooting, security and management of enterprise-wide networks. Upon successful completion of the program, students will be proficient in all aspects of wired and wireless networks, embedded internetworking, IP telephony, network operating systems, servers, network security and computer hardware.

Teaching Methods
Classes are taught in a combination of lecture, seminar, tutorial, online reading, workshop, practical and laboratory sessions. Class sizes will be small giving students the opportunity for greater interaction with classmates and more individual attention from teachers. Simulation and animation tools will be used to enhance the learning process.

Professional Recognition
The Associate Degree in Engineering Technology (Network Engineering) is a new program and Engineers Australia is currently reviewing its standing within its structure.

Career Prospects
For students graduating and exiting after the 2 years, there are job opportunities in areas that may include computer systems, network design, network management, network maintenance, network traffic engineering, network security, wireless networks, and voice and video over IP networks. Industry certification skills are highly valued and graduates of this program will be provided training for certification exams including MCSA, A+, CCNA, CCNP, CWNA, SSCP and CVOICE. Graduates will be well equipped with the practical and theoretical skills to gain access to careers such as computer hardware specialist, network engineer, network professional, network system analyst, network security specialist and IP telephony specialist. They will also be able to fill a diverse range of middle management positions.

Pathways
Successful graduates will receive 2 years advanced standing in one of the following bachelor degree programs:

- Bachelor of Engineering (Network Engineering) CRICOS Code 056415C
- Bachelor of Engineering (Computer Systems Engineering) CRICOS Code 043158M

Students will require an additional 2 years of study to complete their chosen bachelor program.

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Program structure

Year 1

• Computer Architecture
• Network Fundamentals
• Transmission Media
• Embedded System Fundamentals
• Internetworking Technologies
• Network Operating Systems
• Electrical Principles
• Mathematics 1

Year 2

• Network Infrastructure
• Scalable Internet Architecture
• Linux Network Administration
• Network Security
• Embedded Internetworking
• Voice & Video over IP Networks
• Mathematics 2
• Student Elective

Entrance Requirements

English

One of the following

IELTS – 6.0 (no band less than 5.5)
TOEFL – Paper based – 550+ (TWE 4.0+)
TOEFL – Computer based – 213+ (TWE 4.0+)
TOEFL – Internet Based Test (iBT)
   - Overall Score 79
   - (minimum 19 in all sections)
REW – English for Academic Purposes
   - Advanced Level 1

Academic

Successful completion of Year 12/Foundation Studies program or equivalent.