

THE UNIVERSITY OF SYDNEY
PROPOSAL FOR
VARIATION OF A POSTGRADUATE AWARD PROGRAM
FACULTY OF SCIENCE

SECTION A: COVER SHEET

A1. Title of the award program:

Master of Information Technology

A2. Abbreviation of the title:

MInfTech

A3. Department/School/Centre presenting the proposal: **Basser Department of Computer Science in conjunction with the Department of Electrical and Information Engineering, and the Faculty of Economics and Business**

A4. Faculty contact:

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A5. Departmental contact:

Name: **A/Professor Jesse Jin**
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A6. Proposal supported by:

Head of Department/School/Centre (name): **Professor David Feng**

Signature:.....Date:../.../...

Chair of Board of Postgraduate Studies (name): **A/Professor Brian James**

Signature:.....Date:../.../.....

Dean of Faculty (name): **Professor Beryl Hesketh**

Signature:.....Date:../.../.....

Received by CGS/...../.....
Recommendation to Senate...../...../.....

Recommendation to Academic Board/...../.....
Senate resolutions to central registry/...../.....

SECTION B: Purpose of Variation to the Program

B1. Description of the variation to the program (no more than 500 words): **To coordinate Information Technology offerings between three Faculties at the Masters level.**

B2. Purpose of the variation: **To meet increasing demand from the rapidly evolving IT industry; to increase the competitiveness of current IT programs in the University of Sydney; to improve the quality of the graduates; and to reduce the administrative load of the program.**

B3. Anticipated change in demand for program following variation: **A slight increase in demand at first, then more as the range of units offered increases, especially following the introduction of units being developed under the Science Lectureships funding in E-Commerce and Internet working.**

SECTION C: Variation to Program Structure, Delivery and/or Content

C1. Current method of candidature:

a. coursework only

C2. Changes to assessment: **None**

C3. Changes to teaching methodology (Specify any changes to the number of lectures, tutorials, seminars, etc): **None**

C4. Change to course length: **None**

C5. Provide a brief program description incorporating the change below and attach a detailed description of the revised program in Appendix 1.

Master of Information Technology

The Master of Information Technology degree draws on the IT-related programs of computer science, computer engineering, telecommunications and business information systems currently situated in a number of different faculties and departments. It offers greatly enhanced opportunities to construct a program of courses best matched to the candidates needs.

Candidates for the degree must normally hold at least a three-year degree majoring in any aspect of Information Technology, with results of Credit or better in the final year of the IT components. The requirement for results of Credit or better can be waived for applicants who have a degree with an Information Technology major and who also supply evidence of at least two years experience in the Information Technology industry, at the professional level .

Conditions for graduation:

- **a total of 48 credit points must be completed;**
 - **a maximum of 24 credit points can be selected from Foundational units of study;**
 - **at least 24 credit points should come from Specialist units of study or project units of study;**
 - **candidates who do not achieve an average result of a Credit or better in their foundation and specialist units of study may not select IT projects;**
 - **candidates who have an average result of a Credit or better in their course work may select a maximum of 18 credit points from IT project units of study**
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SECTION D: Student Load

D1. Proposed date for the introduction of the variation: **Semester 1, 2002**

D7. If the variation will involve a change in load, has the change in load been accepted into the Faculty load profile? **Not applicable**

Section E. Internal Courseload Details

E1. Indicate whether the variation will result in a change in the courseload for the program.

E2. List all Departments participating in the teaching and the proportional load across Departments:

Basser Department of Computer Science, School of Electrical and Information Engineering and the School of Business in ratio of 5:2:2

E3. Proposed unit structure and HECS load: **Fee paying only.**

Section F: Administration of the programme

F1. Department/School responsible for administration:

Basser Department of Computer Science

F2. Does the variation require any change in administrative arrangements for the program?

Yes/~~No~~(delete whichever is applicable)

An inter-departmental committee has been established.

Section G: Facilities

G1. List staff available for teaching and positions required if variation is to proceed:

These units of study are already being offered by staff in the Basser Department of Computer Science, School of Electrical and Information Engineering and the School of Business. Other departments/schools may contribute to teaching in the program in the future. It is not proposed to introduce new units of study which require extra staff, except for those funded externally (eg by Science Lectureships).

G2. List equipment required and indicate availability:

No change required

G3. List general facilities required (e.g. laboratory space, etc.) and indicate availability:

Computer Labs

Available (yes/~~no~~)

G4. Library resources required and availability: **Library resources required are the same as those used for the current versions of these award courses.**

Library impact statement to come

Please note that Departments are expected to have consulted with the University Librarian about matter relating to library resources and an attached pro-forma must be completed and included with this document as Appendix 2.

G5: Where Faculty support is required to resource the programme indicate whether that support has been obtained:

Not applicable

If additional resources are required, a separate sheet listing the requirements in terms of staff, equipment, space and costs (where appropriate) should be attached as Appendix 3.

Section H: Off-shore and Distance Education Courses

H1. If the variation involves the introduction of off-shore delivery or distance education indicate processes in place to guarantee:

- (a) quality of academic staffing
- (b) availability of teaching resources
- (c) provision for adequate curriculum delivery
- (d) provision for adequate student assessment
- (e) provision for adequate authentication of student work

Not applicable

Section I: Fees

I1. Expected full-fee paying international enrolment:

20.

I2. Details of fee structure approved by International Education Office:

Local Students: A\$13, 200; International Students: A\$17600 in 2002 (including GST for 48 credit points)

I3. Expected full-fee paying local enrolment:

The total enrolment will be fee-paying.

If the programme will be taking full fee paying local students, please attach the course budget plan which has been approved by the Planning Support Office as Appendix 4.

Section J: Consultation and Evaluation

J1. Indicate below which Departments would have an interest in the proposed variation to the program and indicate those which have been consulted:

All departments with an interest in this program are party to this proposal (please see attached letters of support from School of Electrical & Information Engineering and School of Business)

J2. List the committees which have approved this proposal at the Departmental and Faculty level:

**Management Committee of Computer Science
 Postgraduate Studies Committee of Electrical and Information Engineering
 Postgraduate Studies Committee of Faculty of Engineering
 Postgraduate Studies Committee of Faculty of Economics and Business
 Postgraduate Studies Committee of the Faculty of Science
 Faculty of Science
 Faculty of Engineering
 Faculty of Economics and Business**

J3. List any external body which has provided an independent evaluation of the proposed course variation (e.g. an accreditation board or relevant industrial body):

Please attach at least one letter of support for the variation from an external professional or community group as Appendix 5.

Section K: Resolutions and Handbook Entry

K1. Draft Senate resolutions or required amendments to existing resolutions:

Please see attached.

K2. Draft of changes required to Faculty resolutions:

Please see attached.

K3. Draft entry for the Faculty of Science Handbook:

Please see attached.

Resolutions of the Senate

Master of Information Technology

Eligibility for admission.

1. The Dean of the Faculty of Science may admit to candidature

- (1) graduates who have completed a ~~three year~~ **Bachelor's** degree, with results equivalent to Credit level in a major study of any aspect of Information Technology;
- (2) persons who have completed the GradDipIT, **GradDipTelecomm, GradDipCompSystEng, GradDipTechVentureCreation, GradDipEc or GradDipCom** at the University of Sydney, with an average result of Credit or better.

Availability

2.

- (1) Admission to the Master of Information Technology may be limited by a quota.
- (2) In determining the quota the University will take into account:
 - (a) availability of resources including space, laboratory and computing facilities; and
 - (b) availability of adequate and appropriate supervision.
- (3) In considering an application for admission to candidature, the Head of the Basser Department of Computer Science and the Dean shall select, in preference, applicants who are most meritorious in terms of section 1 above.

Time limits

3. A candidate may proceed on either a full-time or a part-time basis. In determining the length of candidacy below, the Dean shall include time previously spent as a candidate for the **GradCertIT, or GradDipIT, GradDipTelecomm, GradDipCompSystEng, GradDipTechVentureCreation, GradDipEc or GradDipCom** course.

- (1) A full-time candidate shall complete the requirements for the award not earlier than the end of the second semester of candidature, and not later than the end of the fourth semester of candidature, unless otherwise determined by the Dean.
 - (2) A part-time candidate shall complete the requirements of the award not earlier than the end of the fourth semester of candidature, and not later than the end of the eighth semester of candidature, unless otherwise determined by the Dean.
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Resolutions of the Faculty

Graduate Certificate in Information Technology

Graduate Diploma in Information Technology

Master of Information Technology

Requirements for the courses

1.

- (1) Candidates for the Graduate Certificate in Information Technology are required to complete satisfactorily units of study granting a minimum of 24 credit points selected from units of study, excluding IT project units of study, approved for the Master of Information Technology.

(2) Candidates for the Graduate Diploma in Information Technology are required to complete satisfactorily units of study granting a minimum of 36 credit points selected from units of study approved for the Master of Information Technology. Of the 36 credit points, a maximum of 24 credit points can be selected from Foundational units of study; and at least 12 credit points should come from Specialist units of study, excluding IT project units of study.

(3) Candidates for the Master of Information Technology are required to complete satisfactorily units of study granting a minimum of 48 credit points selected from the units of study approved for the Master of Information Technology, satisfying the conditions approved from time to time by the Faculty. Of the 48 credit points, a maximum of 24 credit points can be selected from Foundational units; and at least 24 credit points should come from Specialist units or IT projects.

2.

(1) To qualify for the award of Master of Information Technology students must complete one of the defined majors.

(2) The defined majors for the Master of Information Technology are Software Engineering, Multimedia Technology, ~~E-Commerce Technology, Database Systems,~~ **Database Management Systems, E-business , Business Information Systems, Telecommunications Engineering, Computer Engineering,** Computer Science and Computer Networks.

3. The testamur for the Master of Information Technology shall specify the major(s) completed in order to qualify for the award.

Examination

2. On completion of the requirements for the course, the Faculty shall determine the results of the candidature.

Progress

3. The Dean may –

(1) call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards the completion of the requirements for the Graduate Certificate in Information Technology, the Graduate Diploma in Information Technology or the Master of Information Technology, and

(2) where the candidate does not show good cause, terminate the candidature.

Credit

4. A candidate who, before admission to candidature, has spent time in graduate study and, within the previous three years, has completed coursework considered by the Faculty to be equivalent to units of study prescribed for the course, may receive credit of up to 12 credit points towards the requirements for the Graduate Diploma in Information Technology or Master of Information Technology.

Entry in Faculty of Science Handbook

Course Overview

The University of Sydney offers planned, targeted postgraduate programs in IT to meet the huge demand of the applied IT industry. This articulated program includes the Graduate Certificate in Information Technology, the Graduate Diploma in Information Technology and the Master of Information Technology degree and is designed to provide a core of knowledge in information technology, supplemented by a broad range of options within areas of Computer Networks and the Internet, E-business, Multimedia, Database Management and Administration, Software Engineering, Business Information Systems, etc. The combination of core units and electives provides an excellent retraining opportunity. Students will not only obtain depth in their knowledge of the IT industry but will also be able to choose from a selection of options which will allow them to focus on different specialisations in the broad span of the industry.

The Master of Information Technology requires 1 year (2 semesters) of full-time study. The degree is designed to teach you current developments in topics you have already studied as well as extend your knowledge in advanced computing subjects. The program consists of coursework and/or projects in your major area of interest.

During the first semester of attendance you have the opportunity to select from a number of Information Technology units of study. These cover areas such as object-oriented systems, computer graphics, artificial intelligence, database systems, multimedia, software engineering, computer networks and the Internet, e-business, and user interfaces.

Also available is a selection of specialist units of study covering advanced topics within various areas. In addition you have the option to choose information technology projects to replace some specialist units in the second semester if the average mark of your units of study is credit or better. The project involves a substantial piece of programming using the knowledge gained during the course and may be related to your employment.

Course Outcomes

Upon completion of the Graduate Certificate, graduates will possess a practical and theoretical background in some of the basic aspects of Information Technology. This can be supplemented and extended upon completion of the Graduate Diploma, and extended further to include research and practical skills by completion of the Masters program.

Upon completion of the Master of Information Technology graduates will have a sound knowledge base in several contemporary topics within information technology. They will also have experience in applying this knowledge to the implementation of a useful system.

Admission Requirements

Applicants for the Graduate Certificate in Information Technology should hold a Bachelor's degree in any aspect of Information Technology.

Applicants for the Graduate Diploma in Information Technology should either hold a Bachelor's degree in any aspect of Information Technology, or have completed the Graduate Certificate in Information Technology at the University of Sydney with an average result of Credit or better.

Applicants for the Master in Information Technology should hold a Bachelor's degree in any aspect of Information Technology with results of Credit or better or have completed the Graduate Diploma in Information Technology, Graduate Diploma in Telecommunications, Graduate Diploma in Technology Venture Creation, Graduate Diploma in Computer Systems Engineering, Graduate Diploma in Commerce, Graduate Diploma in Economics at the University of Sydney with an average result of Credit or better.

Course Requirements

Graduate Certificate in Information Technology:

- A total of 24 credit points must be completed;
- Credit points can be selected from Foundational units of study

Graduate Diploma in Information Technology:

- A total of 36 credit points must be completed;
- A maximum of 24 credit points can be selected from Foundational units of study;
- At least 12 credit points should come from Specialist units of study, excluding IT project units of study

Master of Information Technology:

- A total of 48 credit points must be completed;
- A maximum of 24 credit points can be selected from Foundational units of study;
- At least 24 credit points should come from Specialist units of study or IT project units of study;
- Candidates who do not achieve an average result of a Credit or better in their course work may not select IT project units of study;
- Candidates who have an average result of a Credit or better in their course work may select a maximum of 18 credit points from IT project units of study

Credit for previous study

A candidate who, before admission to candidature, has spent time in graduate study and, within the previous three years, has completed coursework considered by the Faculty to be equivalent to units of study prescribed for the course, may receive credit for up to 12 credit points towards the requirements for the Graduate Diploma in Information Technology or Master of Information Technology.

Units of Study available in 2002**Foundational units:**

COMP5015 Relational Database Systems
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5019 System and Network Administration
 COMP5112 User Interface Design and Programming
 COMP5114 Digital Media Fundamentals
 ELEC6604 Engineering Software Requirements
 INFS6000 Business Information Systems

Specialist units:

COMP5322 Artificial Neural Networks

COMP5315 Internet Programming
 COMP5327 Computer and Communication Security
 COMP5337 Design of Distributed Object Systems
 COMP5347 E-Commerce Technology
 COMP5318 Knowledge Discovery and Data Mining
 COMP5328 Machine Learning Techniques
 COMP5319 Programming Distributed Object Systems
 COMP5414 Visual Information Processing
 COMP5415 Multimedia Authoring and Production
 COMP5445 OO Techniques in Multimedia
 ELEC7504 Cellular Radio Engineering
 ELEC7501 Advanced Communication Networks
 ELEC7502 Satellite Communication Systems
 ELEC7503 Optical Communication Systems
 ELEC7506 Optical Networks
 ELEC7601 Advanced Real Time Computing
 ELEC7604 Adaptive Pattern Recognition
 ELEC7606 Multimedia Systems & Applications
 ELEC7611 Advanced Computer Engineering
 ELEC8521 Radio Frequency Engineering
 ELEC8522 Antennas & Propagation
 ELEC8525 GSM Advanced System Techniques
 ELEC8621 Signal & Video Processing for Multimedia
 ELEC8801 Advanced Topics in Wireless Communication
 ELEC8802 Advanced Topics in Integrated Systems
 ELEC8803 Advanced Topics in Signal Processing
 ELEC8805 Advanced Topics in Photonics
 INFS6001 Management Information Systems
 INFS6002 Information Technology Strategy & Management
 INFS6004 Change Agent Facilitation & IT
 INFS6012 Integrated Enterprise Systems
 INFS6013 Information Technology Risk Management & Assurance
 INFS6014 Information Technology Project Management
 INFS6015 Business Process Analysis & Design
 INFS6017 Knowledge Management
 MKTG6003 Management of Technology
 MKTG6015 Electronic Marketing

IT project units:

COMP5702 Information Technology Project A
 COMP5703 Information Technology Project B
 COMP5704 Information Technology Project C
 ELEC8900 Project full-time
 ELEC8901 Project part-time A
 ELEC8902 Project part-time B

Majors available for the Master of Information Technology

Master of Information Technology students can complete one of the nine following majors:

- Computer Networks
- Computer Science
- Database Management Systems
- E-business
- Multimedia Technology
- Software Engineering
- Business Information Systems
- Telecommunications Engineering
- Computer Engineering

In order to graduate in a designated major in the Master of Applied Information Technology, students must complete at least 24 credit points of Core units for the designated major. Core units are listed in the following information. C=Core.

Under special circumstances approval may be given (up to 24 credit points) for other University of Sydney postgraduate units of study deemed equivalent to units of study listed for this program.

Major: Computer Networks

Foundational units:

COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5019 System and Network Administration
 COMP5110 Software Development Methods (not available in 2002)
 COMP5114 Digital Media Fundamentals
 ELEC6504 Digital Communication Networks (not available in 2002)
 ELEC6505 Error Control Coding (not available in 2002)
 ELEC6506 Data Communication Networks (not available in 2002)

Specialist units:

INFO5330 Designing Networked Enterprises (C) (not available in 2002)
 COMP5315 Internet Programming (C)
 COMP5327 Computer and Communication Security (C)
 COMP5337 Design of Distributed Object Systems (C)
 COMP5347 E-Commerce Technology (C)
 COMP5357 Computer Supported Cooperative Work (C)
 COMP5319 Programming Distributed Object Systems (C)
 COMP5411 Software Metrics Using Java (C) (not available in 2002)
 COMP5425 Multimedia Storage, Retrieval & Delivery (C)(not available in 2002)
 COMP5445 OO Techniques in Multimedia (C)
 ELEC7501 Advanced Communication Networks
 ELEC7505 Advanced Digital Transmission (not available in 2002)
 ELEC7610 Computer and Network Security (not available in 2002)
 ELEC7611 Advanced Computer Engineering

IT projects:

COMP5702 Information Technology Project A (12 credit points) (C)
 COMP5703 Information Technology Project B (12 credit points) (C)
 COMP5704 Information Technology Project C (6 credit points) (C)
 ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: Computer Science

Foundational units:

COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5110 Software Development Methods (not available in 2002)
 COMP5112 User Interface Design and Programming
 ELEC6604 Engineering Software Requirements
 ELEC6605 Computer Design (not available in 2002)
 ELEC6606 Real Time Computing (not available in 2002)

Specialist units:

COMP5311 Computational Geometry (C) (not available in 2002)
 COMP5312 Natural Language Processing (C) (not available in 2002)
 COMP5322 Artificial Neural Networks (C)
 COMP5316 Transaction Management (C) (not available in 2002)
 COMP5327 Computer and Communication Security (C)
 COMP5318 Knowledge Discovery and Data Mining (C)
 COMP5328 Machine Learning Techniques
 COMP5421 Verification (C) (not available in 2002)
 ELEC7601 Advanced Real Time Computing

IT projects:

COMP5702 Information Technology Project A (12 credit points)
 COMP5703 Information Technology Project B (12 credit points)
 COMP5704 Information Technology Project C (6 credit points)

ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: Database Management Systems

Foundational units:

COMP5015 Relational Database Systems
 COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5019 System and Network Administration
 COMP5110 Software Development Methods (not available in 2002)
 COMP5122 Multimedia Human Computer Interaction (not available in 2002)
 COMP5114 Digital Media Fundamentals
 INFS6000 Business Information Systems

Specialist units:

INFO5320 Object-Oriented Systems Modelling (C) (not available in 2002)
 INFO5330 Designing Networked Enterprises (C) (not available in 2002)
 COMP5312 Natural Language Processing (C) (not available in 2002)
 COMP5315 Internet Programming (C)
 COMP5316 Transaction Management (C) (not available in 2002)
 COMP5327 Computer and Communication Security (C)
 COMP5337 Design of Distributed Object Systems (C)
 COMP5347 E-Commerce Technology (C)
 COMP5318 Knowledge Discovery and Data Mining (C)
 COMP5328 Machine Learning Techniques
 COMP5319 Programming Distributed Object Systems (C)
 COMP5411 Software Metrics Using Java (C) (not available in 2002)
 COMP5425 Multimedia Storage, Retrieval & Delivery (C)(not available in 2002)
 COMP5445 OO Techniques in Multimedia (C)
 INFS6001 Management Information Systems (C)
 INFS6002 Information Technology Strategy and Management (C)
 INFS6004 Change Agent Facilitation and Information Technology
 INFS6005 Internet Business Models and Strategies (not available in 2002)
 INFS6011 Object Oriented Programming in Java (not available in 2002)
 INFS6012 Integrated Enterprise Systems
 INFS6013 Information Technology Risk Management and Assurance
 INFS6014 Information Technology Project Management (C)
 INFS6015 Business Process Analysis and Design
 INFS6101 Special Topic in Business Information Systems (not available in 2002)

IT projects:

COMP5702 Information Technology Project A (12 credit points) (C)
 COMP5703 Information Technology Project B (12 credit points) (C)
 COMP5704 Information Technology Project C (6 credit points) (C)
 ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: E-Business

Foundational units:

COMP5015 Relational Database Systems
 COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5019 System and Network Administration
 COMP5110 Software Development Methods (not available in 2002)
 COMP5112 User Interface Design and Programming
 COMP5122 Multimedia Human Computer Interaction (not available in 2002)
 COMP5114 Digital Media Fundamentals
 ELEC6506 Data Communication Networks (not available in 2002)
 INFS6000 Business Information Systems

Specialist units:

INFO5320 Object-Oriented Systems Modelling (C) (not available in 2002)

INFO5330 Designing Networked Enterprises (C) (not available in 2002)
 COMP5315 Internet Programming (C)
 COMP5316 Transaction Management (not available in 2002)
 COMP5327 Computer and Communication Security (C)
 COMP5337 Design of Distributed Object Systems
 COMP5347 E-Commerce Technology (C)
 COMP5328 Machine Learning Techniques
 COMP5319 Programming Distributed Object Systems (C)
 COMP5411 Software Metrics Using Java (C) (not available in 2002)
 COMP5421 Verification (not available in 2002)
 COMP5425 Multimedia Storage, Retrieval & Delivery (not available in 2002)
 COMP5445 OO Techniques in Multimedia (C)
 ELEC7610 Computer and Network Security (not available in 2002)
 INFS6001 Management Information Systems
 INFS6002 Information Technology Strategy and Management (C)
 INFS6004 Change Agent Facilitation and Information Technology (C)
 INFS6005 Internet Business Models and Strategies (not available in 2002)
 INFS6011 Object Oriented Programming in Java (not available in 2002)
 INFS6012 Integrated Enterprise Systems
 INFS6013 Information Technology Risk Management and Assurance
 INFS6014 Information Technology Project Management (C)
 INFS6015 Business Process Analysis and Design
 INFS6101 Special Topic in Business Information Systems (not available in 2002)
 INFS6102 Special Topic in E-business (not available in 2002)
 MKTG6015 Electronic Marketing (C)
 MKTG6003 Management of Technology

IT projects:

COMP5702 Information Technology Project A (12 credit points) (C)
 COMP5703 Information Technology Project B (12 credit points) (C)
 COMP5704 Information Technology Project C (6 credit points) (C)
 ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: Multimedia Technology**Foundational units:**

COMP5014 Computer Graphics Fundamentals (not available in 2002)
 COMP5015 Relational Database Systems
 COMP5007 Networked Systems
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5110 Software Development Methods (not available in 2002)
 COMP5112 User Interface Design and Programming
 COMP5122 Multimedia Human Computer Interaction (not available in 2002)
 COMP5114 Digital Media Fundamentals
 ELEC6304 Image Processing and Computer Vision (not available in 2002)
 ELEC6606 Real Time Computing (not available in 2002)

Specialist units:

INFO5320 Object-Oriented Systems Modelling (C) (not available in 2002)
 INFO5330 Designing Networked Enterprises (C) (not available in 2002)
 COMP5315 Internet Programming (C)
 COMP5327 Computer and Communication Security (C)
 COMP5337 Design of Distributed Object Systems (C)
 COMP5347 E-Commerce Technology (C)
 COMP5357 Computer Supported Cooperative Work (not available in 2002)
 COMP5328 Machine Learning Techniques
 COMP5319 Programming Distributed Object Systems (C)
 COMP5411 Software Metrics Using Java (C) (not available in 2002)
 COMP5414 Visual Information Processing
 COMP5424 Information Technology in Biomedicine (not available in 2002)

COMP5415 Multimedia Authoring and Production
 COMP5425 Multimedia Storage, Retrieval & Delivery (C)(not available in 2002)
 COMP5435 Multimedia Agents (not available in 2002)
 COMP5445 OO Techniques in Multimedia (C)
 ELEC7604 Adaptive Pattern Recognition
 ELEC7606 Multimedia Systems and Applications
 ELEC8621 Signal and Video Processing for Multimedia
 ELEC8803 Advanced Topics in Signal Processing

IT projects:

COMP5702 Information Technology Project A (12 credit points)
 COMP5703 Information Technology Project B (12 credit points)
 COMP5704 Information Technology Project C (6 credit points)
 ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: Software Engineering**Foundational units:**

COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5019 System and Network Administration
 COMP5110 Software Development Methods (not available in 2002)
 COMP5112 User Interface Design and Programming
 ELEC6604 Engineering Software Requirements
 ELEC6606 Real Time Computing (not available in 2002)

Specialist units:

INFO5320 Object-Oriented Systems Modelling (C) (not available in 2002)
 INFO5330 Designing Networked Enterprises (C) (not available in 2002)
 COMP5315 Internet Programming (C)
 COMP5327 Computer and Communication Security (C)
 COMP5337 Design of Distributed Object Systems (C)
 COMP5347 E-Commerce Technology (C)
 COMP5357 Computer Supported Cooperative Work (not available in 2002)
 COMP5319 Programming Distributed Object Systems (C)
 COMP5411 Software Metrics Using Java (C) (not available in 2002)
 COMP5421 Verification (not available in 2001)
 COMP5435 Multimedia Agents (C)
 COMP5445 OO Techniques in Multimedia (C)
 ELEC7601 Advanced Real Time Computing

IT projects:

COMP5702 Information Technology Project A (12 credit points) (C)
 COMP5703 Information Technology Project B (12 credit points) (C)
 COMP5704 Information Technology Project C (6 credit points) (C)
 ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: Business Information Systems**Foundational units:**

COMP5015 Relational Database Systems
 COMP5110 Software Development Methods (not available in 2002)
 COMP5112 User Interface Design and Programming
 COMP5122 Multimedia Human Computer Interaction (not available in 2002)
 INFS6000 Business Information Systems

Specialist units:

INFO5320 Object-Oriented Systems Modelling (not available in 2002)
 INFO5330 Designing Networked Enterprises (not available in 2002)
 COMP5315 Internet Programming

COMP5316 Transaction Management (not available in 2002)
 COMP5327 Computer and Communication Security
 COMP5347 E-Commerce Technology
 COMP5357 Computer Supported Cooperative Work (not available in 2002)
 COMP5318 Knowledge Discovery and Data Mining
 COMP5328 Machine Learning Techniques
 COMP5319 Programming Distributed Object Systems
 COMP5411 Software Metrics Using Java (not available in 2002)
 COMP5425 Multimedia Storage, Retrieval & Delivery (not available in 2002)
 INFS6001 Management Information Systems (C)
 INFS6002 Information Technology Strategy and Management
 INFS6004 Change Agent Facilitation and Information Technology
 INFS6005 Internet Business Models and Strategies (not available in 2002)
 INFS6011 Object Oriented Programming in Java (C) (not available in 2002)
 INFS6012 Integrated Enterprise Systems (C)
 INFS6013 Information Technology Risk Management and Assurance (C)
 INFS6014 Information Technology Project Management
 INFS6015 Business Process Analysis and Design
 INFS6101 Special Topic in Business Information Systems (not available in 2002)
 INFS6102 Special Topic in E-business (not available in 2002)
 MKTG6015 Electronic Marketing
 MKTG6003 Management of Technology

IT projects:

COMP5702 Information Technology Project A (12 credit points)
 COMP5703 Information Technology Project B (12 credit points)
 COMP5704 Information Technology Project C (6 credit points)
 ELEC8900 Project full time (12 credit points)
 ELEC8901 Project part time - part A (A+B = 12 credit points)
 ELEC8902 Project part time - part B (A+B = 12 credit points)

Major: Telecommunications Engineering**Foundational units:**

COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5019 System and Network Administration
 ELEC6403 Electronic Design (not available in 2002)
 ELEC6504 Digital Communication Networks (not available in 2002)
 ELEC6505 Error Control Coding (not available in 2002)
 ELEC6506 Data Communication Networks (not available in 2002)
 ELEC6704 Software Project Management (not available in 2002)

Specialist units:

INFO5330 Designing Networked Enterprises (not available in 2002)
 COMP5315 Internet Programming
 COMP5327 Computer and Communication Security
 COMP5337 Design of Distributed Object Systems
 COMP5319 Programming Distributed Object Systems
 COMP5435 Multimedia Agents (not available in 2002)
 ELEC7501 Advanced Communication Networks (C)
 ELEC7502 Satellite Communication Systems (C)
 ELEC7503 Optical Communication Systems (C)
 ELEC7504 Cellular Radio Engineering (C)
 ELEC7505 Advanced Digital Transmission (C) (not available in 2002)
 ELEC7506 Optical Networks (C)
 ELEC8521 Radio Frequency Engineering (C)
 ELEC8522 Antennas and Propagation (C)
 ELEC8525 GSM Advanced System Techniques (C)
 ELEC8801 Advanced Topics in Wireless Communication (C)
 ELEC8805 Advanced Topics in Photonics

IT projects:

COMP5702 Information Technology Project A (12 credit points)

COMP5703 Information Technology Project B (12 credit points)
 COMP5704 Information Technology Project C (6 credit points)
 ELEC8900 Project full time (12 credit points) (C)
 ELEC8901 Project part time - part A (A+B = 12 credit points) (C)
 ELEC8902 Project part time - part B (A+B = 12 credit points) (C)

Major: Computer Engineering

Foundational units:

COMP5014 Computer Graphics Fundamentals (not available in 2002)
 COMP5007 Networked Systems (not available in 2002)
 COMP5018 Object-Oriented Programming in C++
 COMP5028 O-O Analysis and Design
 COMP5110 Software Development Methods (not available in 2002)
 COMP5112 User Interface Design and Programming
 COMP5122 Multimedia Human Computer Interaction (not available in 2002)
 COMP5114 Digital Media Fundamentals
 ELEC6304 Image Processing and Computer Vision (not available in 2002)
 ELEC6404 Integrated Circuit Design (not available in 2002)
 ELEC6604 Engineering Software Requirements
 ELEC6605 Computer Design (not available in 2002)
 ELEC6606 Real Time Computing (not available in 2002)
 ELEC6704 Software Project Management (not available in 2002)

Specialist units:

INFO5330 Designing Networked Enterprises (not available in 2002)
 COMP5311 Computational Geometry (not available in 2002)
 COMP5322 Artificial Neural Networks
 COMP5315 Internet Programming
 COMP5327 Computer and Communication Security
 COMP5337 Design of Distributed Object Systems
 COMP5347 E-Commerce Technology
 COMP5319 Programming Distributed Object Systems
 COMP5411 Software Metrics Using Java (not available in 2002)
 COMP5414 Visual Information Processing
 COMP5424 Information Technology in Biomedicine (not available in 2002)
 COMP5415 Multimedia Authoring and Production
 COMP5425 Multimedia Storage, Retrieval & Delivery (not available in 2002)
 COMP5435 Multimedia Agents (not available in 2002)
 COMP5445 OO Techniques in Multimedia
 ELEC7601 Advanced Real Time Computing (C)
 ELEC7604 Adaptive Pattern Recognition (C)
 ELEC7606 Multimedia Systems and Applications (C)
 ELEC7610 Computer and Network Security (C) (not available in 2002)
 ELEC7611 Advanced Computer Engineering (C)
 ELEC8621 Signal and Video Processing for Multimedia (C)
 ELEC8802 Advanced Topics in Integrated Systems (C)
 ELEC8803 Advanced Topics in Signal Processing (C)

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 ELEC8902 Project part time - part B (A+B = 12 credit points) (C)