INFORMATION TECHNOLOGY PROGRAM- Course List

This graph should be used to assist students in the selection of appropriate courses to complete specialisations within the standard duration of the program. Failure to plan ahead will require students to complete additional courses beyond those required for the degree. The arrow therefore points to requisite course. Extended courses may be used as alternative requisites in all cases where there are extended options.

Level 0 - No Prequisite or may be taken in the first semester of study

- COMP9021 Principles of Programming (continued below)
- MATH9046 Intro to Probability & Stochastic Processes
- MATH9065 Intro to Statistics & Statistical Computations

COMP9020 Foundations of Computer Science

COMP9416 Security Engineering

- COMP9032 Microprocessors & Interfacing
- COMP9311 Computer Networks

- COMP9041 Software Construction
  COMP9024 Systems Capacity Planning

COMP9024 Data Structures & Algorithms

COMP9331 Computer Networks

- COMP9413 Experimental Robotics
- COMP9444 Neural Networks

- COMP9321 Robotic "Swarm" Architecture
  COMP9444 Neural Networks

- COMP9417 Machine Learning & Data Mining*

- COMP9518 Adv Topics in Statistics & Machine Learning*

Level 1 - Courses with Level 0 Prerequisites or courses that may be taken in the second semester of study

- COMP9026 Principles of Programming

COMP9024 Data Structures & Algorithms

COMP9414 Artificial Intelligence

- COMP9014 Artificial Intelligence
  COMP9014 Artificial Intelligence

- COMP9021 Principles of Programming

COMP9026 Data Structures & Algorithms

COMP9032 Microprocessors & Interfacing

- COMP9313 Operating Systems (Ext)

Level 2 - Courses with Level 1 Prerequisites or courses that may be taken in the third semester of study

- COMP9026 Principles of Programming

COMP9024 Data Structures & Algorithms

COMP9414 Artificial Intelligence

- COMP9014 Artificial Intelligence

- COMP9021 Principles of Programming

COMP9024 Data Structures & Algorithms

COMP9032 Microprocessors & Interfacing

- COMP9313 Operating Systems (Ext)

Level 3 - Courses with Level 2 Prerequisites or courses that may be taken in the fourth semester of study

- COMP9026 Principles of Programming

COMP9024 Data Structures & Algorithms

COMP9414 Artificial Intelligence

- COMP9014 Artificial Intelligence

- COMP9021 Principles of Programming

COMP9024 Data Structures & Algorithms

COMP9032 Microprocessors & Interfacing

- COMP9313 Operating Systems (Ext)

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Courses with an asterisk signify Advanced Disciplinary Knowledge courses.

* Courses with an asterisk signify Advanced Disciplinary Knowledge courses.
ARTIFICIAL INTELLIGENCE SPECIALISATION

INFORMATION TECHNOLOGY PROGRAM - Course List

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INFORMATION TECHNOLOGY PROGRAM - Course List

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DATABASE SYSTEMS SPECIALISATION
INFORMATION TECHNOLOGY PROGRAM- Course List
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Level 0 - No Prerequisite or may be taken in the first semester of study

Level 1 - Courses with Level 0 Prerequisites or courses that may be taken in the second semester of study

Level 2 - Courses with Level 1 Prerequisites or courses that may be taken in the third semester of study

Level 3 - Courses with Level 2 Prerequisites or courses that may be taken in the fourth semester of study

* Courses with an asterisk signify Advanced Disciplinary Knowledge courses.
INFORMATION TECHNOLOGY PROGRAM - Course List

This graph should be used to assist students in the selection of appropriate courses to complete specialisations within the standard duration of the program. Failure to plan ahead will require students to complete additional courses beyond those required for the degree. The arrow therefore points to requisite course. Extended courses may be used as alternative requisites in all cases where there are extended options.

Level 0 - No Prerequisite or may be taken in the first semester of study

- COMP9022 Principles of Programming (continued below)
- MATH4066 Intro to Probability & Stochastic Processes
- MATH4065 Intro to Statistical Computations
- COMP9020 Foundations of Computer Science
- COMP9024 Advanced Parallel Algorithms

Level 1 - Courses with Level 0 Prerequisites or courses that may be taken in the second semester of study

- COMP9041 Software Construction
- COMP9026 System Capacity Planning
- COMP9024 Data Structures & Algorithms (continued below)
- COMP9031 Computer Networks
- COMP94021 Security Engineering
- COMP9322 Microprocessors & Interfacing
- COMP9311 Database Systems
- COMP9313 Big Data Management
- COMP9511 Database System Implementation

Level 2 - Courses with Level 1 Prerequisites or courses that may be taken in the third semester of study

- COMP9061 Operating Systems
- COMP9011 Operating Systems
- COMP9063 Operating Systems (Ext)
- COMP9031 Computer Architecture
- COMP9032 Web Applications Engineering
- COMP9033 Game Design Workshop

Level 3 - Courses with Level 2 Prerequisites or courses that may be taken in the fourth semester of study

- COMP9051 Computational Bioinformatics
- COMP9031 Object-Oriented C++ Dev
- COMP9041 Theory of Computation
- COMP9011 Advanced C++ Programming
- COMP9032 Programming Lang. & Compilers
- COMP9033 Computer Vision
- COMP9041 Computational Biology
- COMP9031 Object-Oriented C++ Dev
- COMP9041 Theory of Computation
- COMP9011 Advanced C++ Programming
- COMP9032 Programming Lang. & Compilers
- COMP9033 Computer Vision

Courses with an asterisk signify Advanced Disciplinary Knowledge courses.

Note: Courses with an asterisk signify Advanced Disciplinary Knowledge courses.
INTERNETWORKING SPECIALISATION

INFORMATION TECHNOLOGY PROGRAM - Course List

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Level 0 - No Prerequisite or may be taken in the first semester of study

Level 1 - Courses with Level 0 Prerequisites or courses that may be taken in the second semester of study

Level 2 - Courses with Level 1 Prerequisites or courses that may be taken in the third semester of study

Level 3 - Courses with Level 2 Prerequisites or courses that may be taken in the fourth semester of study

* Courses with an asterisk signify Advanced Disciplinary Knowledge courses.