INFORMATION TECHNOLOGY PROGRAM- Course List

Level 0 - No Prerequisite or

Level 1 - Courses with Level 0

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 2 - Courses with Level 1 Prerequisites or

COMP9517 Computer Vision*

* Courses with an asterisk signify **Advanced Disciplinary Knowledge** courses.

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

may be taken in the first Prerequisites or courses that may be courses that may be taken in the third semester of study taken in the second semester of study semester of study semester of study COMP9021 Principles of COMP9041 Software Construction COMP4411 Experimental COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in (continued below) COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning MATH5846 Intro to & Data Mining Probability & Stochastic Processes COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Analysis of Algorithms Computation COMP9331 Computer COMP9801 Design & MATH5856 Intro to Analysis of Algorithms (Ext) Statistics & Statistical Computations COMP6721 (In-)Formal COMP9020 Foundations of Computer Science BINF9010 Bioinformatics Methods & Aplns COMP9243 Distributed COMP9332 Network Routing & Switching COMP4161 Adv Topics in Software Verification COMP6733 Internet of Things COMP9333 Advanced Computer Networks COMP9116 S'ware Dev: B-Method/Toolkit Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9511 Human Computer Interaction COMP9336 Mobile Data Networking* GBAT9117 E-Business: Strategy and Mgmt COMP9337 Securing Wireless Networks* GEOS9016 Principles in Geog Inf Systems* GMAT9200 Intro to GPS Positioning* GMAT9210 GeoIT & Infomobility Applications* GMAT9300 Aerial & Satellite Imaging Systems* **GMAT9600** Principles of Remote Sensing* COMP9283 Operating **GSOE9210** Engineering Decision Structures GSOE9820 Engineering Project Mgmt MATH5845 Time Series COMP9447 Security COMP9242 Advanced MATH5855 Multivariate Analysis COMP9201 Operating Operating Systems* Engineering W'shop MATH5905 Statistical Inference MATH5960 Bayesian Inference & Computation TABL5521 E-Business and the Law (formerly COMP9323 e-Enterprise known as LEGT5421) Project* COMP9441 Security Engineering* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9032 Microprocesso COMP9322 Service COMP9321 Web & Interfacing Oriented Architecture Applications Engineering COMP9311 COMP9313 Big Data Management COMP4432 Game COMP4431 Game Database Syster COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining* **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev COMP4141 Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems (continued from above) COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9021 Principles of COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP9414 Artificial Intelligence COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* COMP9814 Artificial Intelligence (Ext) Computer Graphics **Advanced Graphics** Representation³

ARTIFICIAL INTELLENGENCE SPECIALISATION * Courses with an asterisk signify **Advanced** INFORMATION TECHNOLOGY PROGRAM- Course List **Disciplinary Knowledge** courses. 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 Level 1 - Courses with Level 0 **Level 2** - Courses with Level 1 Prerequisites or **Level 3** - Courses with Level 2 Prerequisites may be taken in the first Prerequisites or courses that may be courses that may be taken in the third or courses that may be taken in the fourth semester of study taken in the second semester of study semester of study semester of study COMP9021 Principles of COMP9041 Software Construction COMP4411 Experimental COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in (continued below) COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning MATH5846 Intro to & Data Mining* Probability & Stochastic Processes COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Computation COMP9331 Computer COMP9801 Design & MATH5856 Intro to Analysis of Algorithms (Ext) Statistics & Statistical Computations COMP6721 (In-)Formal COMP9020 Foundations of Computer Science BINF9010 Bioinformatics Methods & Aplns COMP9243 Distributed COMP9332 Network Routing & Switching COMP4161 Adv Topics in Software Verification COMP6733 Internet of Things COMP9333 Advanced Computer Networks COMP9116 S'ware Dev: B-Method/Toolkit Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9511 Human Computer Interaction COMP9336 Mobile Data Networking GBAT9117 E-Business: Strategy and Mgmt COMP9337 Securing Wireless Networks* GEOS9016 Principles in Geog Inf Systems* GMAT9200 Intro to GPS Positioning* GMAT9210 GeoIT & Infomobility Applications* GMAT9300 Aerial & Satellite Imaging Systems* GMAT9600 Principles of Remote Sensing* COMP9283 Operating **GSOE9210** Engineering Decision Structures GSOE9820 Engineering Project Mgmt MATH5845 Time Series COMP9242 Advanced COMP9447 Security MATH5855 Multivariate Analysis COMP9201 Operating Operating Systems* Engineering W'shop MATH5905 Statistical Inference MATH5960 Bayesian Inference & Computation TABL5521 E-Business and the Law (formerly COMP9323 e-Enterprise known as LEGT5421) Project* COMP9441 Security Engineering* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9032 Microprocesso COMP9322 Service COMP9321 Web & Interfacing Oriented Architecture Applications Engineering COMP9311 COMP9313 Big Data Management COMP4432 Game COMP4431 Game Database Syster COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev COMP4141 Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems (continued from above) COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9021 Principles of COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP9414 Artificial Intelligence COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* COMP9814 Artificial Intelligence (Ext) Computer Graphics **Advanced Graphics** Representation¹ COMP9517 Computer Vision*

BIOINFORMATICS SPECIALISATION * Courses with an asterisk signify **Advanced INFORMATION TECHNOLOGY PROGRAM- Course List Disciplinary Knowledge** courses. 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 Level 1 - Courses with Level 0 **Level 2** - Courses with Level 1 Prerequisites or **Level 3** - Courses with Level 2 Prerequisites may be taken in the first Prerequisites or courses that may be courses that may be taken in the third or courses that may be taken in the fourth semester of study taken in the second semester of study semester of study semester of study COMP9021 Principles of COMP9041 Software Construction COMP4411 Experimental COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in (continued below) COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning MATH5846 Intro to & Data Mining* Probability & Stochastic Processes COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Computation COMP9331 Computer COMP9801 Design & MATH5856 Intro to Analysis of Algorithms (Ext) Statistics & Statistical Computations COMP6721 (In-)Formal COMP9020 Foundations of Computer Science BINF9010 Bioinformatics Methods & Aplns COMP9243 Distributed COMP9332 Network Routing & Switching COMP4161 Adv Topics in Software Verification COMP6733 Internet of Things COMP9333 Advanced Computer Networks COMP9116 S'ware Dev: B-Method/Toolkit Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9511 Human Computer Interaction COMP9336 Mobile Data Networking GBAT9117 E-Business: Strategy and Mgmt COMP9337 Securing Wireless Networks* GEOS9016 Principles in Geog Inf Systems* GMAT9200 Intro to GPS Positioning* GMAT9210 GeoIT & Infomobility Applications* GMAT9300 Aerial & Satellite Imaging Systems* GMAT9600 Principles of Remote Sensing* COMP9283 Operating **GSOE9210** Engineering Decision Structures GSOE9820 Engineering Project Mgmt MATH5845 Time Series COMP9242 Advanced COMP9447 Security MATH5855 Multivariate Analysis COMP9201 Operating Operating Systems* Engineering W'shop MATH5905 Statistical Inference MATH5960 Bayesian Inference & Computation TABL5521 E-Business and the Law (formerly COMP9323 e-Enterprise known as LEGT5421) Project* COMP9441 Security Engineering* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9032 Microprocesso COMP9322 Service COMP9321 Web & Interfacing Oriented Architecture Applications Engineering COMP9311 COMP9313 Big Data Management COMP4432 Game COMP4431 Game Database System COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev COMP4141 Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems (continued from above) COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9021 Principles of COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP9414 Artificial Intelligence COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* COMP9814 Artificial Intelligence (Ext) Computer Graphics **Advanced Graphics** Representation³ COMP9517 Computer Vision*

DATA SCIENCE AND ENGINEERING SPECIALISATION * Courses with an asterisk signify **Advanced** INFORMATION TECHNOLOGY PROGRAM- Course List **Disciplinary Knowledge** courses. 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 Level 1 - Courses with Level 0 **Level 2** - Courses with Level 1 Prerequisites or **Level 3** - Courses with Level 2 Prerequisites may be taken in the first Prerequisites or courses that may be courses that may be taken in the third or courses that may be taken in the fourth semester of study taken in the second semester of study semester of study semester of study COMP9021 Principles of COMP9041 Software Construction COMP4411 Experimental COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in (continued below) COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning MATH5846 Intro to & Data Mining Probability & Stochastic Processes COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Computation COMP9331 Computer COMP9801 Design & MATH5856 Intro to Analysis of Algorithms (Ext) Statistics & Statistical Computations COMP6721 (In-)Formal COMP9020 Foundations of Computer Science BINF9010 Bioinformatics Methods & Aplns COMP9243 Distributed COMP9332 Network Routing & Switching COMP4161 Adv Topics in Software Verification COMP6733 Internet of Things COMP9333 Advanced Computer Networks COMP9116 S'ware Dev: B-Method/Toolkit Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9511 Human Computer Interaction COMP9336 Mobile Data Networking GBAT9117 E-Business: Strategy and Mgmt COMP9337 Securing Wireless Networks* GEOS9016 Principles in Geog Inf Systems* GMAT9200 Intro to GPS Positioning* GMAT9210 GeoIT & Infomobility Applications* GMAT9300 Aerial & Satellite Imaging Systems* **GMAT9600** Principles of Remote Sensing* COMP9283 Operating **GSOE9210** Engineering Decision Structures **GSOE9820** Engineering Project Mgmt MATH5845 Time Series COMP9447 Security COMP9242 Advanced MATH5855 Multivariate Analysis COMP9201 Operating Operating Systems* Engineering W'shop MATH5905 Statistical Inference MATH5960 Bayesian Inference & Computation TABL5521 E-Business and the Law (former) COMP9323 e-Enterprise known as LEGT5421) Project* COMP9441 Security Engineering* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9032 Microprocesso COMP9322 Service COMP9321 Web & Interfacing Oriented Architecture Applications Engineering COMP9311 COMP9313 Big Data Management COMP4432 Game COMP4431 Game Database System COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev COMP4141 Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems (continued from above) COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9021 Principles of COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP9414 Artificial Intelligence COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* COMP9814 Artificial Intelligence (Ext) Computer Graphics **Advanced Graphics** Representation³ COMP9517 Computer Vision'

DATABASE SYSTEMS SPECIALISATION * Courses with an asterisk signify **Advanced INFORMATION TECHNOLOGY PROGRAM- Course List Disciplinary Knowledge** courses. 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 1 - Courses with Level 0 **Level 2** - Courses with Level 1 Prerequisites or **Level 3** - Courses with Level 2 Prerequisites Prerequisites or courses that may be courses that may be taken in the third or courses that may be taken in the fourth taken in the second semester of study semester of study semester of study COMP9041 Software Construction COMP4411 Experimental COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning & Data Mining COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Computation COMP9331 Computer COMP9801 Design & Analysis of Algorithms (Ext) COMP6721 (In-)Formal COMP9243 Distributed COMP9332 Network Routing & Switching COMP6733 Internet of Things COMP9333 Advanced Computer Networks Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9336 Mobile Data Networking COMP9337 Securing Wireless Networks* COMP9283 Operating COMP9447 Security COMP9242 Advanced COMP9201 Operating Operating Systems* Engineering W'shop COMP9323 e-Enterprise Project* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9322 Service COMP9321 Web Oriented Architecture Applications Enginee COMP9313 Big Data Management COMP4432 Game COMP4431 Game COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev **COMP4141** Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* Computer Graphics **Advanced Graphics** Representation³

COMP9517 Computer Vision

Level 0 - No Prerequisite or

COMP9021 Principles of

(continued below)

MATH5846 Intro to

Processes

Probability & Stochastic

MATH5856 Intro to

COMP9020 Foundations of Computer Science BINF9010 Bioinformatics Methods & Aplns

COMP4161 Adv Topics in Software Verification

COMP9116 S'ware Dev: B-Method/Toolkit

COMP9511 Human Computer Interaction

GBAT9117 E-Business: Strategy and Mgmt

GEOS9016 Principles in Geog Inf Systems* GMAT9200 Intro to GPS Positioning* GMAT9210 GeoIT & Infomobility Applications* GMAT9300 Aerial & Satellite Imaging Systems* GMAT9600 Principles of Remote Sensing*

GSOE9210 Engineering Decision Structures GSOE9820 Engineering Project Mgmt

MATH5960 Bayesian Inference & Computation TABL5521 E-Business and the Law (formerly

COMP9441 Security Engineering*

COMP9032 Microprocesso

(continued from above)

COMP9021 Principles of

COMP9414 Artificial Intelligence

COMP9814 Artificial Intelligence (Ext)

COMP9311

Database System

MATH5845 Time Series

known as LEGT5421)

MATH5855 Multivariate Analysis

MATH5905 Statistical Inference

& Interfacing

Statistics & Statistical Computations

may be taken in the first

semester of study

e-COMMERCE SYSTEMS SPECIALISATION * Courses with an asterisk signify **Advanced INFORMATION TECHNOLOGY PROGRAM- Course List Disciplinary Knowledge** courses. 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 1 - Courses with Level 0 **Level 2** - Courses with Level 1 Prerequisites or **Level 3** - Courses with Level 2 Prerequisites Prerequisites or courses that may be courses that may be taken in the third or courses that may be taken in the fourth taken in the second semester of study semester of study semester of study COMP9041 Software Construction COMP4411 Experimental COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning & Data Mining COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Computation COMP9331 Computer COMP9801 Design & Analysis of Algorithms (Ext) COMP6721 (In-)Formal COMP9243 Distributed COMP9332 Network Routing & Switching COMP6733 Internet of Things COMP9333 Advanced Computer Networks Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9336 Mobile Data Networking COMP9337 Securing Wireless Networks* COMP9283 Operating COMP9242 Advanced COMP9447 Security COMP9201 Operating Operating Systems* Engineering W'shop COMP9323 e-Enterprise Project* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9322 Service COMP9321 Web Oriented Architecture Applications Engineer COMP9313 Big Data Management COMP4432 Game COMP4431 Game COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining* **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev COMP4141 Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* Computer Graphics **Advanced Graphics** Representation³ COMP9517 Computer Vision*

Level 0 - No Prerequisite or

COMP9021 Principles of

(continued below)

MATH5846 Intro to

Processes

Probability & Stochastic

MATH5856 Intro to

COMP9020 Foundations of Computer Science

BINF9010 Bioinformatics Methods & Aplns

COMP4161 Adv Topics in Software Verification

COMP9116 S'ware Dev: B-Method/Toolkit

COMP9511 Human Computer Interaction

GBAT9117 E-Business: Strategy and Mgmt

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GMAT9200 Intro to GPS Positioning*
GMAT9210 GeoIT & Infomobility Applications*
GMAT9300 Aerial & Satellite Imaging Systems*
GMAT9600 Principles of Remote Sensing*

GSOE9210 Engineering Decision Structures **GSOE9820** Engineering Project Mgmt

MATH5960 Bayesian Inference & Computation
TABL5521 F-Business and the Law /formerly

COMP9441 Security Engineering*

COMP9032 Microprocesso

(continued from above)

COMP9021 Principles of

COMP9414 Artificial Intelligence

COMP9814 Artificial Intelligence (Ext)

COMP9311

Database Syster

MATH5845 Time Series

known as LEGT5421)

MATH5855 Multivariate Analysis

MATH5905 Statistical Inference

& Interfacing

Statistics & Statistical Computations

may be taken in the first

semester of study

INTERNETWORKING SPECIALISATION * Courses with an asterisk signify **Advanced INFORMATION TECHNOLOGY PROGRAM- Course List Disciplinary Knowledge** courses. 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 1 - Courses with Level 0 **Level 2** - Courses with Level 1 Prerequisites or **Level 3** - Courses with Level 2 Prerequisites Prerequisites or courses that may be courses that may be taken in the third or courses that may be taken in the fourth taken in the second semester of study semester of study semester of study COMP4411 Experimental COMP9041 Software Construction COMP9444 Neural Networks* COMP9431 Robotic S'ware Architecture* COMP9334 Systems Capacity Planning* Robotics* COMP9418 Adv Topics in COMP9844 Neural Networks (Ext) Statistical Machine Learning* COMP9417 Machine Learning & Data Mining* COMP4121 Adv & Parallel Algos* COMP9024 Data Structures COMP9101 Design & COMP6741 Parameterized & Exact & Algorithms Computation COMP9331 Computer COMP9801 Design & Analysis of Algorithms (Ext) COMP6721 (In-)Formal COMP9243 Distributed COMP9332 Network Routing & Switching COMP6733 Internet of Things COMP9333 Advanced Computer Networks Experimental Design Studio* COMP9335 Wireless Mesh & Sensor N'wks* COMP9336 Mobile Data Networking COMP9337 Securing Wireless Networks* COMP9283 Operating COMP9242 Advanced COMP9447 Security COMP9201 Operating Operating Systems* Engineering W'shop COMP9323 e-Enterprise Project* COMP9211 Computer Architecture COMP9222 Digital Circuits COMP9322 Service COMP9321 Web Oriented Architecture Applications Engineering COMP9313 Big Data Management COMP4432 Game COMP4431 Game COMP9315 Database System Implementation Design Studio Design Workshop COMP9318 Data Warehousing & Data Mining* **BINF9020** Computational Bioinformatics COMP4001 Object Oriented S'war Dev COMP4141 Theory of Computation COMP6714 Info Retrieval & Web Search* COMP6731 Combinatorial Data Processing (continued from above) **COMP6752** Modelling Concurrent Systems COMP6771 Advanced C++ Programming* COMP9024 Data Structures COMP9102 Programming Lang. & Compilers & Algorithms COMP9151 Foundations of Concurrency COMP9152 Comparative Concurrency Semantics COMP9153 Algorithmic Verification* **COMP9161** Concepts of Programming Languages COMP9171 Object-Oriented Programming* COMP9181 Language-based Software Safety* COMP4418 Knowledge COMP9415 COMP9018 COMP9319 Web Data Compression & Search* Computer Graphics **Advanced Graphics** Representation³ COMP9517 Computer Vision*

Level 0 - No Prerequisite or

COMP9021 Principles of

(continued below)

MATH5846 Intro to

Processes

Probability & Stochastic

MATH5856 Intro to

COMP9020 Foundations of Computer Science

BINF9010 Bioinformatics Methods & Aplns

COMP4161 Adv Topics in Software Verification

COMP9116 S'ware Dev: B-Method/Toolkit

COMP9511 Human Computer Interaction

GBAT9117 E-Business: Strategy and Mgmt

GEOS9016 Principles in Geog Inf Systems*
GMAT9200 Intro to GPS Positioning*
GMAT9210 GeoIT & Infomobility Applications*
GMAT9300 Aerial & Satellite Imaging Systems*
GMAT9600 Principles of Remote Sensing*

GSOE9210 Engineering Decision Structures **GSOE9820** Engineering Project Mgmt

MATH5960 Bayesian Inference & Computation
TABL5521 E-Business and the Law (formerly

COMP9441 Security Engineering

COMP9032 Microprocesso

(continued from above)

COMP9021 Principles of

COMP9414 Artificial Intelligence

COMP9814 Artificial Intelligence (Ext)

COMP9311

Database System

MATH5845 Time Series

known as LEGT5421)

MATH5855 Multivariate Analysis

MATH5905 Statistical Inference

& Interfacing

Statistics & Statistical Computations

may be taken in the first

semester of study