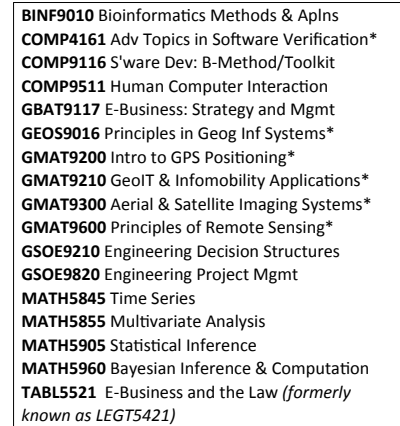# INFORMATION TECHNOLOGY PROGRAM- Course List

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.

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

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

COMP9021 Principles of Programming (continued below)

COMP9041 Software Construction
COMP9334 Systems Capacity Planning*

COMP4411 Experimental Robotics*

COMP9444 Neural Networks*

COMP9431 Robotic S'ware Architecture*
COMP9844 Neural Networks (Ext)

COMP9418 Adv Topics in Statistical Machine Learning*

MATH5846 Intro to Probability & Stochastic Processes

75 WAM

70 WAM

COMP9417 Machine Learning & Data Mining*

MATH5856 Intro to Statistics & Statistical Computations

Co-req

COMP9024 Data Structures & Algorithms (continued below)

Co-req

COMP9101 Design & Analysis of Algorithms

COMP4121 Adv & Parallel Algos*
COMP6741 Parameterized & Exact Computation

OR

COMP9331 Computer Networks

Mark = 70

COMP9801 Design & Analysis of Algorithms (Ext)

COMP9020 Foundations of Computer Science

COMP6721 (In-)Formal Methods

65 WAM

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
MATH5845 Time Series
MATH5855 Multivariate Analysis
MATH5905 Statistical Inference
MATH5960 Bayesian Inference & Computation
TABL5521 E-Business and the Law *(formerly known as LEGT5421)*

COMP9332 Network Routing & Switching
COMP9333 Advanced Computer Networks
COMP9335 Wireless Mesh & Sensor N'wks*
COMP9336 Mobile Data Networking*
COMP9337 Securing Wireless Networks*

COMP9243 Distributed Systems*

COMP6733 Internet of Things Experimental Design Studio*

COMP9283 Operating Systems (Ext)

Mark = 70

COMP9447 Security Engineering W'shop

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9323 e-Enterprise Project*

Co-req

COMP9441 Security Engineering*

COMP9211 Computer Architecture

COMP9322 Service Oriented Architectures

COMP9032 Microprocessors & Interfacing

COMP9222 Digital Circuits & Systems

Co-req

COMP9321 Web Applications Engineering

Co-req

COMP9311 Database Systems

COMP9313 Big Data Management
COMP9315 Database System Implementation
COMP9318 Data Warehousing & Data Mining*

COMP4431 Game Design Workshop

COMP4432 Game Design Studio

BINF9020 Computational Bioinformatics
COMP4001 Object Oriented S'war Dev
COMP4141 Theory of Computation
COMP6714 Info Retrieval & Web Search*
COMP6731 Combinatorial Data Processing
COMP6752 Modelling Concurrent Systems
COMP6771 Advanced C++ Programming*
COMP9102 Programming Lang. & Compilers
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*
COMP9319 Web Data Compression & Search*
COMP9517 Computer Vision*

Co-req

(continued from above)
COMP9021 Principles of Programming

(continued from above)
COMP9024 Data Structures & Algorithms

Co-req

Co-req

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics

Co-req

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

INFORMATION TECHNOLOGY PROGRAM- Course List

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COMP9021 Principles of Programming

(continued below)

COMP9041 Software Construction
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75 WAM

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Co-req

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COMP9024 Data Structures & Algorithms

(continued below)

Co-req

COMP9331 Computer Networks

COMP9101 Design & Analysis of Algorithms

COMP4121 Adv & Parallel Algos*
COMP6741 Parameterized & Exact Computation

OR

Mark = 70

COMP9801 Design & Analysis of Algorithms (Ext)

COMP9020 Foundations of Computer Science

COMP6721 (In-)Formal Methods

65 WAM

COMP9243 Distributed Systems*

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Mark = 70

COMP9283 Operating Systems (Ext)

COMP9447 Security Engineering W'shop

Mark = 70

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9441 Security Engineering*

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Co-req

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Co-req

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COMP9517 Computer Vision*

(continued from above)

COMP9021 Principles of Programming

(continued from above)

COMP9024 Data Structures & Algorithms

Co-req

Co-req

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

BIOINFORMATICS SPECIALISATION

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COMP9444 Neural Networks*

COMP9431 Robotic S'ware Architecture*
COMP9844 Neural Networks (Ext)

COMP9418 Adv Topics in Statistical Machine Learning*

MATH5846 Intro to Probability & Stochastic Processes

75 WAM

70 WAM

COMP9417 Machine Learning & Data Mining*

Co-req

COMP9024 Data Structures & Algorithms (continued below)

COMP9101 Design & Analysis of Algorithms

COMP4121 Adv & Parallel Algos*
COMP6741 Parameterized & Exact Computation

OR

MATH5856 Intro to Statistics & Statistical Computations

Co-req

COMP9331 Computer Networks

Mark = 70

COMP9801 Design & Analysis of Algorithms (Ext)

COMP9020 Foundations of Computer Science

COMP6721 (In-)Formal Methods

65 WAM

COMP9243 Distributed Systems*

BINF9010 Bioinformatics Methods & Aplns
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COMP9337 Securing Wireless Networks*

Mark = 70

COMP9283 Operating Systems (Ext)

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9447 Security Engineering W'shop

Mark = 70

COMP9323 e-Enterprise Project*

Co-req

COMP9441 Security Engineering*

COMP9211 Computer Architecture

COMP9322 Service Oriented Architectures

COMP9032 Microprocessors & Interfacing

COMP9222 Digital Circuits & Systems

COMP9321 Web Applications Engineering

Co-req

Co-req

COMP9311 Database Systems

Co-req

COMP9313 Big Data Management
COMP9315 Database System Implementation
COMP9318 Data Warehousing & Data Mining*

COMP4431 Game Design Workshop

COMP4432 Game Design Studio

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COMP4141 Theory of Computation
COMP6714 Info Retrieval & Web Search*
COMP6731 Combinatorial Data Processing
COMP6752 Modelling Concurrent Systems
COMP6771 Advanced C++ Programming*
COMP9102 Programming Lang. & Compilers
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*
COMP9319 Web Data Compression & Search*
COMP9517 Computer Vision*

(continued from above)

COMP9021 Principles of Programming

(continued from above)

COMP9024 Data Structures & Algorithms

Co-req

Co-req

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics

INFORMATION TECHNOLOGY PROGRAM- Course List

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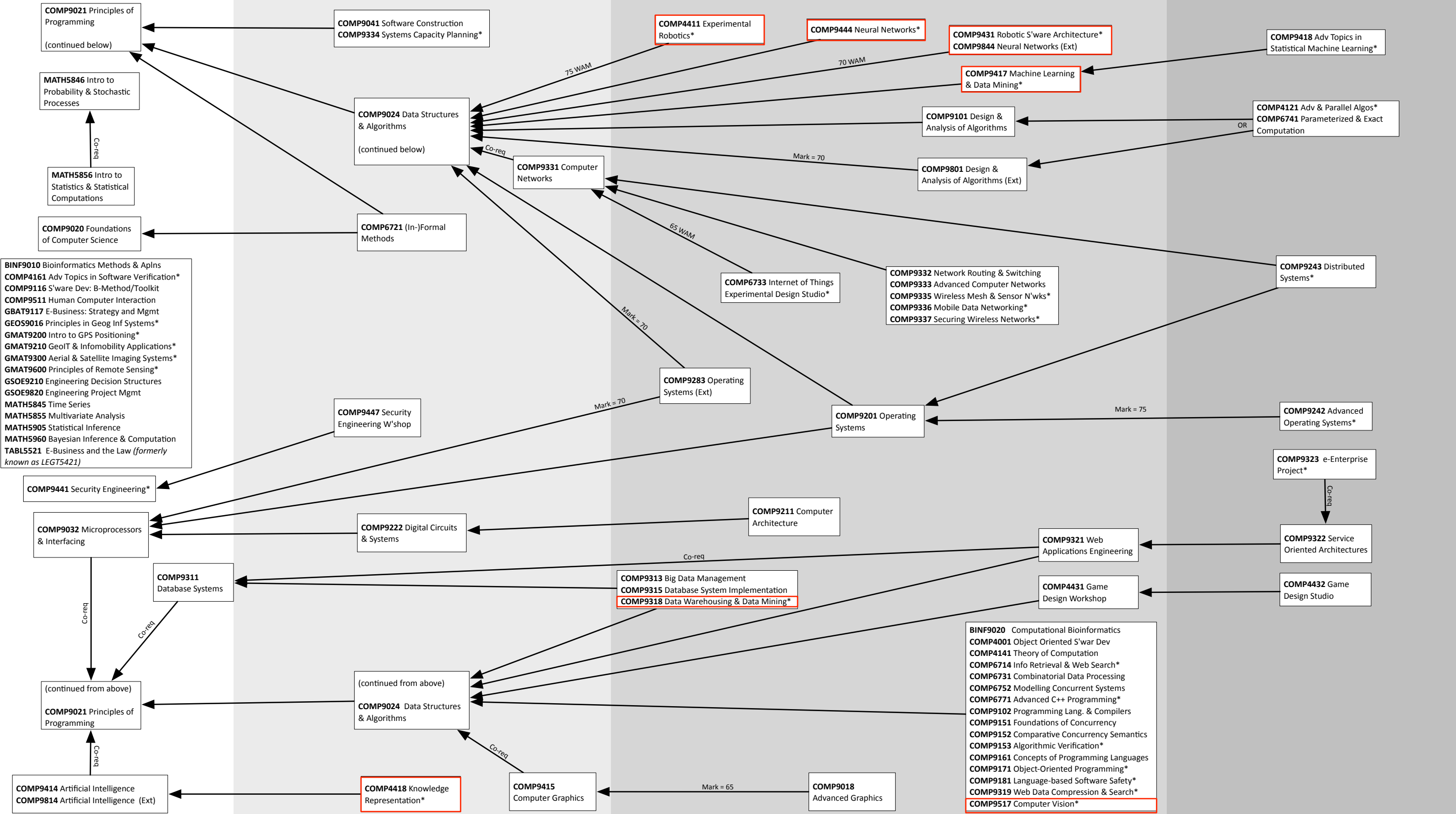
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Level 3 - Courses with Level 2 Prerequisites or courses that may be taken in the fourth semester of study

COMP9021 Principles of Programming (continued below)

COMP9041 Software Construction
COMP9334 Systems Capacity Planning*

COMP4411 Experimental Robotics*

COMP9444 Neural Networks*

COMP9431 Robotic S'ware Architecture*
COMP9844 Neural Networks (Ext)

COMP9418 Adv Topics in Statistical Machine Learning*

MATH5846 Intro to Probability & Stochastic Processes

75 WAM

70 WAM

COMP9417 Machine Learning & Data Mining*

Co-req

COMP9024 Data Structures & Algorithms (continued below)

Co-req

COMP9101 Design & Analysis of Algorithms

COMP4121 Adv & Parallel Algos*
COMP6741 Parameterized & Exact Computation

OR

MATH5856 Intro to Statistics & Statistical Computations

COMP9331 Computer Networks

Mark = 70

COMP9801 Design & Analysis of Algorithms (Ext)

COMP9020 Foundations of Computer Science

COMP6721 (In-)Formal Methods

65 WAM

COMP9243 Distributed Systems*

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
MATH5845 Time Series
MATH5855 Multivariate Analysis
MATH5905 Statistical Inference
MATH5960 Bayesian Inference & Computation
TABL5521 E-Business and the Law *(formerly known as LEGT5421)*

COMP6733 Internet of Things Experimental Design Studio*

COMP9332 Network Routing & Switching
COMP9333 Advanced Computer Networks
COMP9335 Wireless Mesh & Sensor N'wks*
COMP9336 Mobile Data Networking*
COMP9337 Securing Wireless Networks*

Mark = 70

COMP9283 Operating Systems (Ext)

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9447 Security Engineering W'shop

COMP9323 e-Enterprise Project*

Co-req

COMP9441 Security Engineering*

COMP9211 Computer Architecture

COMP9322 Service Oriented Architectures

COMP9032 Microprocessors & Interfacing

COMP9222 Digital Circuits & Systems

COMP9321 Web Applications Engineering

Co-req

COMP9311 Database Systems

Co-req

COMP9313 Big Data Management
COMP9315 Database System Implementation
COMP9318 Data Warehousing & Data Mining*

COMP4431 Game Design Workshop

COMP4432 Game Design Studio

BINF9020 Computational Bioinformatics
COMP4001 Object Oriented S'war Dev
COMP4141 Theory of Computation
COMP6714 Info Retrieval & Web Search*
COMP6731 Combinatorial Data Processing
COMP6752 Modelling Concurrent Systems
COMP6771 Advanced C++ Programming*
COMP9102 Programming Lang. & Compilers
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*
COMP9319 Web Data Compression & Search*
COMP9517 Computer Vision*

(continued from above)
COMP9021 Principles of Programming

(continued from above)
COMP9024 Data Structures & Algorithms

Co-req

Co-req

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

DATABASE SYSTEMS SPECIALISATION
INFORMATION TECHNOLOGY PROGRAM- Course List

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

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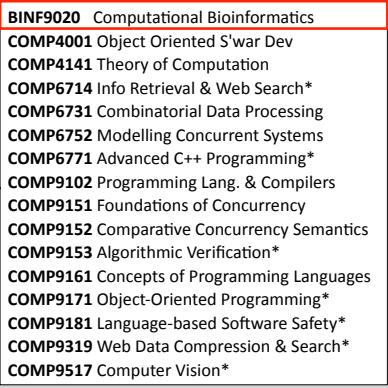
Level 3 - Courses with Level 2 Prerequisites or courses that may be taken in the fourth semester of study

COMP9021 Principles of Programming

(continued below)

COMP9041 Software Construction
COMP9334 Systems Capacity Planning*

COMP4411 Experimental Robotics*

COMP9444 Neural Networks*

COMP9431 Robotic S'ware Architecture*
COMP9844 Neural Networks (Ext)

COMP9418 Adv Topics in Statistical Machine Learning*

MATH5846 Intro to Probability & Stochastic Processes

75 WAM

70 WAM

COMP9417 Machine Learning & Data Mining*

COMP9024 Data Structures & Algorithms

(continued below)

Co-req

COMP9331 Computer Networks

COMP9101 Design & Analysis of Algorithms

COMP4121 Adv & Parallel Algos*
COMP6741 Parameterized & Exact Computation

OR

Mark = 70

COMP9801 Design & Analysis of Algorithms (Ext)

Co-req

MATH5856 Intro to Statistics & Statistical Computations

COMP9020 Foundations of Computer Science

COMP6721 (In-)Formal Methods

65 WAM

COMP9243 Distributed Systems*

COMP6733 Internet of Things Experimental Design Studio*

COMP9332 Network Routing & Switching
COMP9333 Advanced Computer Networks
COMP9335 Wireless Mesh & Sensor N'wks*
COMP9336 Mobile Data Networking*
COMP9337 Securing Wireless Networks*

BINF9010 Bioinformatics Methods & Aplns
COMP4161 Adv Topics in Software Verification*
COMP9116 S'ware Dev: B-Method/Toolkit   Dev: B   /
COMP9511 Human Computer Interaction
GBAT9117 E-Business: Strategy and Mgmt
GEOS9016 Principles in Geog Inf Systems*
GMAT9200 Intro to GPS Positioning*   GPS
GMAT9210 GeoIT & Infomobility Applications*   GeoIT & Infomobility
GMAT9300 Aerial & Satellite Imaging Systems*
GMAT9600 Principles of Remote Sensing*
GSOE9210 Engineering Decision Structures
GSOE9820 Engineering Project Mgmt
MATH5845 Time Series
MATH5855 Multivariate Analysis
MATH5905 Statistical Inference
MATH5960 Bayesian Inference & Computation
TABL5521 E-Business and the Law *(formerly known as LEGT5421)*

Mark = 70

COMP9447 Security Engineering W'shop

Mark = 70

COMP9283 Operating Systems (Ext)

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9323 e-Enterprise Project*   E-Enterprise

Co-req

COMP9441 Security Engineering*

COMP9211 Computer Architecture

COMP9322 Service Oriented Architectures

COMP9032 Microprocessors & Interfacing

COMP9222 Digital Circuits & Systems

Web

COMP9321 Web Applications Engineering

Co-req

Co-req

COMP9311 Database Systems

Co-req

COMP9313 Big Data Management
COMP9315 Database System Implementation
COMP9318 Data Warehousing & Data Mining*

COMP4431 Game Design Workshop

COMP4432 Game Design Studio

BINF9020 Computational Bioinformatics
COMP4001 Object Oriented S'war Dev
COMP4141 Theory of Computation
COMP6714 Info Retrieval & Web Search*
COMP6731 Combinatorial Data Processing
COMP6752 Modelling Concurrent Systems
COMP6771 Advanced C++ Programming*   C++
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COMP9181 Language-based Software Safety*
COMP9319 Web Data Compression & Search*
COMP9517 Computer Vision*

(continued from above)
COMP9021 Principles of Programming

Co-req

Co-req

(continued from above)
COMP9024 Data Structures & Algorithms

Co-req

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics

INFORMATION TECHNOLOGY PROGRAM- Course List

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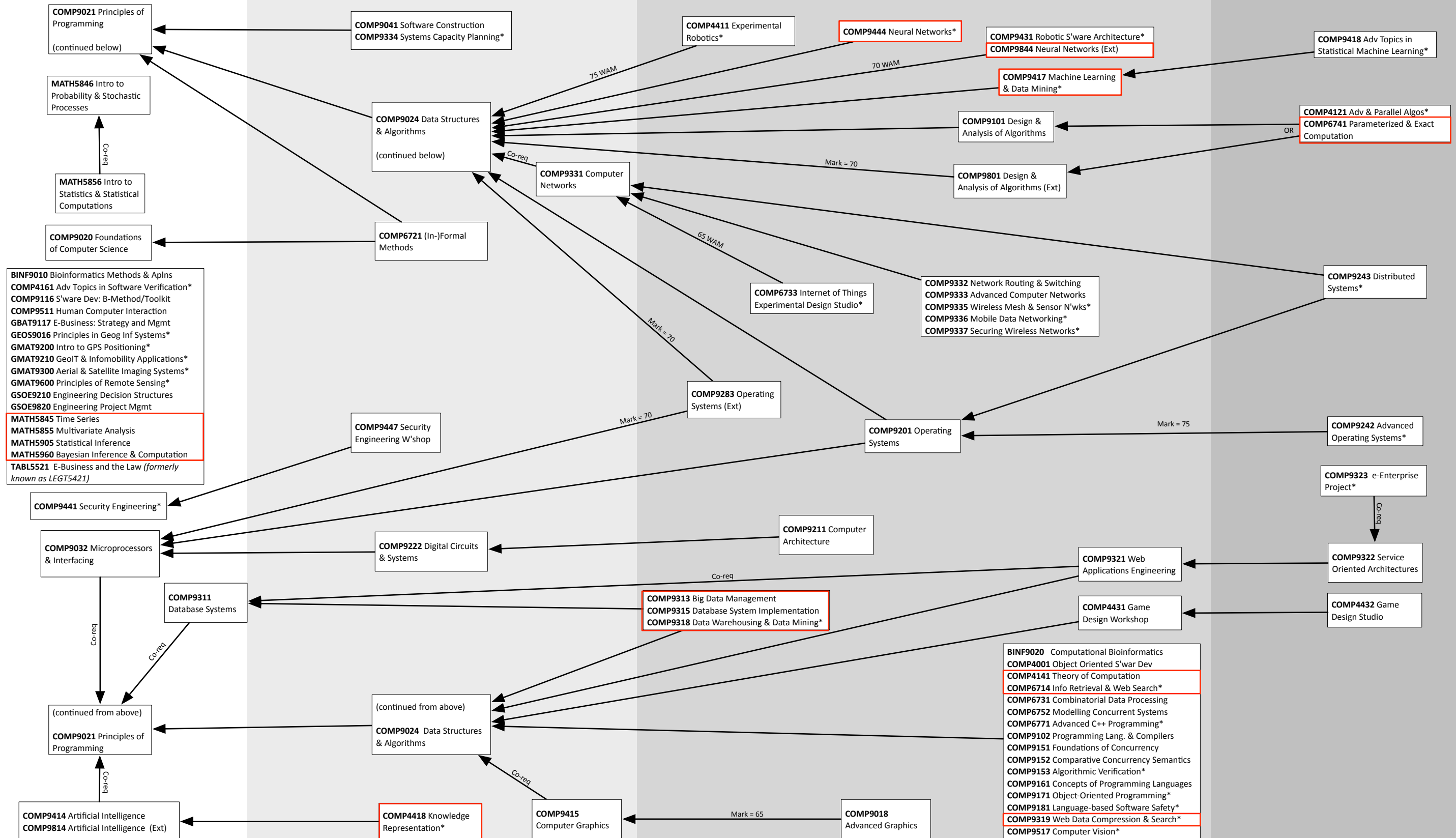
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COMP9021 Principles of Programming (continued below)

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COMP4411 Experimental Robotics*

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COMP9844 Neural Networks (Ext)

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75 WAM

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COMP9417 Machine Learning & Data Mining*

COMP9024 Data Structures & Algorithms (continued below)

Co-req

COMP9331 Computer Networks

COMP9101 Design & Analysis of Algorithms

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OR

Co-req

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Mark = 70

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Mark = 70

COMP9283 Operating Systems (Ext)

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Mark = 75

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COMP9021 Principles of Programming

(continued from above)
COMP9024 Data Structures & Algorithms

Co-req

Co-req

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COMP9024 Data Structures & Algorithms

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COMP9332 Network Routing & Switching
COMP9333 Advanced Computer Networks
COMP9335 Wireless Mesh & Sensor N'wks*
COMP9336 Mobile Data Networking*
COMP9337 Securing Wireless Networks*

Mark = 70

COMP9283 Operating Systems (Ext)

COMP9447 Security Engineering W'shop

Mark = 70

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9441 Security Engineering*

COMP9211 Computer Architecture

COMP9323 e-Enterprise Project*

Co-req

COMP9032 Microprocessors & Interfacing

Co-req

COMP9222 Digital Circuits & Systems

Co-req

COMP9321 Web Applications Engineering

COMP9322 Service Oriented Architectures

Co-req

COMP9311 Database Systems

COMP9313 Big Data Management
COMP9315 Database System Implementation
COMP9318 Data Warehousing & Data Mining*

COMP4431 Game Design Workshop

COMP4432 Game Design Studio

Co-req

(continued from above)

COMP9021 Principles of Programming

(continued from above)

COMP9024 Data Structures & Algorithms

BINF9020 Computational Bioinformatics
COMP4001 Object Oriented S'war Dev
COMP4141 Theory of Computation
COMP6714 Info Retrieval & Web Search*
COMP6731 Combinatorial Data Processing
COMP6752 Modelling Concurrent Systems
COMP6771 Advanced C++ Programming*
COMP9102 Programming Lang. & Compilers
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*
COMP9319 Web Data Compression & Search*
COMP9517 Computer Vision*

Co-req

Co-req

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics

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.

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

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

COMP9021 Principles of Programming

(continued below)

COMP9041 Software Construction
COMP9334 Systems Capacity Planning*

COMP4411 Experimental Robotics*

COMP9444 Neural Networks*

COMP9431 Robotic S'ware Architecture*
COMP9844 Neural Networks (Ext)

COMP9418 Adv Topics in Statistical Machine Learning*

MATH5846 Intro to Probability & Stochastic Processes

75 WAM

70 WAM

COMP9417 Machine Learning & Data Mining*

Co-req

COMP9024 Data Structures & Algorithms

(continued below)

COMP9101 Design & Analysis of Algorithms

COMP4121 Adv & Parallel Algos*
COMP6741 Parameterized & Exact Computation

OR

MATH5856 Intro to Statistics & Statistical Computations

COMP9331 Computer Networks

Co-req

Mark = 70

COMP9801 Design & Analysis of Algorithms (Ext)

COMP9020 Foundations of Computer Science

COMP6721 (In-)Formal Methods

65 WAM

COMP9243 Distributed Systems*

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
MATH5845 Time Series
MATH5855 Multivariate Analysis
MATH5905 Statistical Inference
MATH5960 Bayesian Inference & Computation
TABL5521 E-Business and the Law *(formerly known as LEGT5421)*

COMP6733 Internet of Things Experimental Design Studio*

COMP9332 Network Routing & Switching
COMP9333 Advanced Computer Networks
COMP9335 Wireless Mesh & Sensor N'wks*
COMP9336 Mobile Data Networking*
COMP9337 Securing Wireless Networks*

Mark = 70

COMP9283 Operating Systems (Ext)

COMP9447 Security Engineering W'shop

Mark = 70

COMP9201 Operating Systems

Mark = 75

COMP9242 Advanced Operating Systems*

COMP9441 Security Engineering*

COMP9211 Computer Architecture

COMP9323 e-Enterprise Project*

Co-req

COMP9032 Microprocessors & Interfacing

COMP9222 Digital Circuits & Systems

COMP9322 Service Oriented Architectures

Co-req

Co-req

COMP9311 Database Systems

Co-req

COMP9321 Web Applications Engineering

COMP9313 Big Data Management
COMP9315 Database System Implementation
COMP9318 Data Warehousing & Data Mining*

COMP4431 Game Design Workshop

COMP4432 Game Design Studio

BINF9020 Computational Bioinformatics
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COMP9171 Object-Oriented Programming*
COMP9181 Language-based Software Safety*
COMP9319 Web Data Compression & Search*
COMP9517 Computer Vision*

(continued from above)

COMP9021 Principles of Programming

(continued from above)

COMP9024 Data Structures & Algorithms

Co-req

Co-req

COMP9414 Artificial Intelligence
COMP9814 Artificial Intelligence (Ext)

COMP4418 Knowledge Representation*

COMP9415 Computer Graphics

Mark = 65

COMP9018 Advanced Graphics