Q: pre-requisites for Applied Communication or (COMM501), Programming1 /( COMP500), Computing Technology in Society / ([COMP501](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP501)), Foundations of IT Infrastructure / ([COMP502](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP502)), Computer Networking / ([COMP504](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP504)), Enterprise Systems / [INFS500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=INFS500), Mathematical Concepts / ([MATH500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=MATH500)), Differential and Integral Calculus / ([MATH501](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=MATH501)), Algebra and Discrete Mathematics / ([MATH502](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=MATH502)), Applied Statistics / ([STAT500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=STAT500)), IT Project Management / ([COMP600](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP600)), Research and Development Projectb / (COMP704), Applied Human Computer Interaction / (COMP719), Introduction to Programming / (COMP505), Programming for Engineering Applications / (COMP501), Special Topicb / (COMP705), Health informatics / (COMP724), IT Project Practiceb / (COMP720), Highly secure systems / (COMP716), Needs Analysis and Acquisitiond / (INFS700)?

These papers have no pre-requisites.

the pre-requisites for Programming / pre-requisites for COMP503

you are required to complete [COMP500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP500) or [ENSE501](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=ENSE501),student.aiml

pre requisites for Software Development Practice / What is the pre requisites for COMP602

you are required to complete [COMP603](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP603) or [COMP610](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP610),  COMP600,student.aiml

prerequisites for Program Design and Construction / (COMP603) / pre requisites for COMP603

you are required to complete [COMP503](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP603) or  [INFS600](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=INFS600),student.aiml

pre requisites for Operating Systems / pre requisites for COMP604

you are required to complete [COMP502](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP502), [COMP503](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP503), or [COMP610](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP610),student.aiml

pre requisites for Data and Process Modelling / pre requisites for INFS600

you are required to complete [COMP500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP500),student.aiml

pre requisites for Logical Database Design / pre requisites for INFS601

you are required to complete [COMP500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP500) or [ENSE501](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=ENSE501),student.aiml

pre requisites for Physical Database Design / pre requisites for INFS602

you are required to complete [COMP503](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP503), [INFS601](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=INFS601),student.aiml

pre requisites for Distributed and Mobile Systems / pre requisites for COMP713

you are required to complete [COMP611](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP611),student.aiml

pre requisites for Web Development / tpre requisites for COMP721?

you are required to complete [COMP603](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP603),student.aiml

pre requisites for Object Oriented Applications / pre requisites for ENSE502?

you are required to complete [ENSE501](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=ENSE501) or [COMP500](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP500),student.aiml

the pre requisites for Computer Graphics / pre requisites for COMP612?

you are required to complete [MATH502](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=MATH502) and [COMP603](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP603) or [COMP610](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP610),student.aiml

pre requisites for Mathematics of Finance / pre requisites for MATH604?

you are required to complete [MATH501](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=MATH501),student.aiml

the pre requisites for Game Programming / pre requisites for COMP710?

you are required to complete [COMP612](https://blackboard.aut.ac.nz/webapps/aut-dscr-bb_bb60/index2.jsp?course_id=COMP612),student.aiml

Career opportunities?

* Computer programmer
* Mobile/app developer
* Software developer, engineer or tester
* Systems analyst or architect
* Technology consultant
* Web developer
* Project manager

## Other majors in Bachelor of Computer and Information Sciences

* [Analytics](https://autdev.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/analytics-major)
* [Computational Intelligence](https://autdev.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/computational-intelligence-major)
* [Computer Science](https://autdev.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/computer-science-major)
* [IT Service Science](https://autdev.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/it-service-science-major)
* [Networks and Security](https://autdev.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/networks-and-security-major)

the streams of each paper

Please click on the following link to take you to paper search, where you could enter the paper’s code to find out more about paper description, available streams and number of points

https://arion.aut.ac.nz/ArionMain/CourseInfo/Information/Qualifications/PaperSearch.aspx

The paper descriptor

Please click on the following link to take you to paper descriptor, where you could click on the papers’ code for description.

https://blackboard.aut.ac.nz/webapps/blackboard/execute/displayLearningUnit?course\_id=\_85631\_1&content\_id=\_3968463\_1

Q: directed link to my Arion page

https://arion.aut.ac.nz/ArionMain/CourseInfo/Menu.aspx

Q: Entry requirements?

Please click on the following link to know more about entry requirements

https://www.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/computer-science-major

Q: directed link to blackboard

Please follow this link https://blackboard.aut.ac.nz

Q: see the points instructions

Most papers last one semester and are worth 15 points. You must complete 120 points each year (360 points for the entire degree). Or click on the following link to take you to paper search, where you could enter the paper’s code to find out more about paper description, available streams and number of points

https://arion.aut.ac.nz/ArionMain/CourseInfo/Information/Qualifications/PaperSearch.aspx

Q: how to apply?

Please follow this link to find out more about how to apply <https://autdev.aut.ac.nz/study/applying>

Q: any other questions?

A: please check this link for any other enquires: <https://autdev.aut.ac.nz/study/study-options/engineering-computer-and-mathematical-sciences/courses/bachelor-of-computer-and-information-sciences/software-development-major>

Q: how can I search for a paper?

Explore papers offered at Auckland University of Technology, including prescriptor and timetable information, Please click on this link to search for a certain paper:

https://arion.aut.ac.nz/ArionMain/CourseInfo/Information/Qualifications/PaperSearch.aspx

Q: what papers I can take in year 1?

### A: All students take seven core papers that are compulsory for all majors. You also choose one other mathematics paper.

### **Complete the following papers**

* [COMM501 Applied Communication (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMM501)
* [COMP500 Programming 1 (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP500)
* [COMP501 Computing Technology in Society (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP501)
* [COMP502 Foundations of IT Infrastructure (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP502)
* [COMP503 Programming 2 (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP503)
* [ENEL504 Computer Network Principles (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=ENEL504)
* [INFS500 Enterprise Systems (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=INFS500)

### **And choose one of**

* [MATH500 Mathematical Concepts (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=MATH500)
* [MATH501 Differential and Integral Calculus (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=MATH501)
* [MATH502 Algebra and Discrete Mathematics (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=MATH502)- recommended for this major
* [STAT500 Applied Statistics (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=STAT500)

Or any other paper with the approval of the programme leader

Q: what papers I can take in year 2?

You must complete the following papers

* [COMP600 IT Project Management (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP600)
* [COMP610 Data Structures and Algorithms (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP610)
* [COMP611 Algorithm Design and Analysis (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP611)
* [INFS600 Data and Process Modelling (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=INFS600)
* [INFS601 Logical Database Design (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=INFS601)

And choose one of

* [COMP604 Operating Systems (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP604)
* [COMP613 Logic and Discrete Structures (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP613)

And choose 30 points from the elective papers below or other Bachelor of Computer and Information Sciences papers (subject to meeting prerequisites).

Q: what papers I can take in year 3?

You must complete the following papers

* [COMP704 Research and Development Project (30 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP704) (or an approved alternative)
* [COMP711 Theory of Computation (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP711)
* [COMP712 Programming Languages (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP712)

And choose one of

* [COMP713 Distributed and Mobile Systems (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP713)
* [COMP717 Artificial Intelligence (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP717)

And choose 45 points from the elective papers below or other Bachelor of Computer and Information Sciences papers (subject to meeting prerequisites).

Q: Work place experience

The Research and Development Project paper brings together the skills you’ve developed throughout your degree. You apply what you’ve learnt in a project for an industry client or research centre, under the guidance of an experienced supervisor.

elective papers I can take?

## Elective papers

### **Level 5 papers**

* [COMP505 Introduction to Programming (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP505)
* [ENSE501 Programming for Engineering Applications (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=ENSE501)
* [ENSE502 Object Oriented Applications (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=ENSE502)

### **Level 6 papers**

* [COMP612 Computer Graphics Programming (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP612)
* [MATH604 Mathematics of Finance (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=MATH604)

### **Level 7 papers**

* [COMP705 Special Topic (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP705)
* [COMP710 Game Programming (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP710)
* [COMP716 Highly Secure Systems (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP716)
* [COMP720 IT Project Practice (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP720)
* [COMP724 Health Informatics (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=COMP724)
* [INFS700 Needs Analysis and Acquisition (15 points)](https://www.aut.ac.nz/rc/arion_address/paperdetails-refresh.php?paper_code=INFS700)