

<https://courseoutline.auckland.ac.nz/dco/course/COMPSCI/289/1215>

COMPSCI 289 : Research Seminar in Computer Science

Science

2021 Semester Two (1215) (15 POINTS)

Course Prescription

An introduction to research topics in computer science. Students will be expected to prepare and deliver a review of research in a topic of their choice. Research articles will be provided during the course, and will consist of key scientific publications.

Course Overview

An introduction to research topics in Computer Science. This course provides a wide-ranging overview of the research which is undertaken in Computer Science with an emphasis on the top research groups within the school. Research groups will provide an overview of major themes and directions for the future as well as selected publications which will provide insight to current research ideas. Research groups will present on: Artificial intelligence and machine learning; Computational biology; Computer networks, internet and mobile computing; Computer vision and computer graphics; Computing education; Cybersecurity; Human-computer interaction; Parallel and distributed computing; Software engineering; and Theoretical computer science. The course emphasizes the skills for analyzing research literature in Computer Science. Students will prepare and deliver an oral presentation on an advanced topic in Computer Science, as well as reviewing fellow students' presentations, and will prepare a research report on a Computer Science topic. This course is required by all students in the BAdvSci (Computer Science) programme and is a precursor to COMPSCI 389 which is also required for students in the BAdvSci. This course is good preparation for students wishing to move into postgraduate study or understand research publications, providing essential skills in how to identify and comprehend research papers in Computer Science.

Course Requirements

Prerequisite: Minimum GPA of 5.0 and COMPSCI 110, 120, 130

Capabilities Developed in this Course

Capability 1: Disciplinary Knowledge and Practice

- Capability 2: Critical Thinking
- Capability 3: Solution Seeking
- Capability 4: Communication and Engagement
- Capability 5: Independence and Integrity
- Capability 6: Social and Environmental Responsibilities

Graduate Profile: [Bachelor of Science](#)

Learning Outcomes

By the end of this course, students will be able to:

1. Analyse research literature in Computer Science (Capability 1, 5 and 6)
2. Prepare and deliver an oral presentation on an advances topic in Computer Science (Capability 1, 4, 5 and 6)
3. Review an oral presentation on an advanced topic in Computer Science (Capability 2, 4 and 5)
4. Learn how to prepare a research report on a Computer Science topic (Capability 1, 2, 3, 4, 5 and 6)
5. Recognise and interpret recent research advancements in Computer Science (Capability 1 and 6)

Assessments

Assessment Type	Percentage	Classification
Individual Seminar	30%	Individual Coursework
Seminar Review	10%	Individual Coursework
Group report	60%	Group & Individual Coursework
3 types	100%	

Assessment Type	Learning Outcome Addressed				
	1	2	3	4	5
Individual Seminar	✓	✓			✓
Seminar Review			✓		
Group report	✓			✓	✓

Special Requirements

N/A

Workload Expectations

This course is a standard 15 point course and students are expected to spend 10 hours per week involved in each 15 point course that they are enrolled in.

For this course, you can expect 36 hours of lectures, 42 hours of reading and thinking about the content and 70 hours of work on assignments.

Delivery Mode

Campus Experience

Lectures will be available as recordings.

The course will not include live online events.

The activities for the course are scheduled as a standard weekly timetable.

Learning Resources

All research papers will be available through the library system.

Student Feedback

During the course Class Representatives in each class can take feedback to the staff responsible for the course and staff-student consultative committees.

At the end of the course students will be invited to give feedback on the course and teaching through a tool called SET or Qualtrics. The lecturers and course co-ordinators will consider all feedback.

Your feedback helps to improve the course and its delivery for all students.

Digital Resources

Course materials are made available in a learning and collaboration tool called Canvas which also includes reading lists and lecture recordings (where available).

Please remember that the recording of any class on a personal device requires the permission of the instructor.

Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting their learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the internet. A student's assessed work may be reviewed against online source material using computerised detection mechanisms.

Copyright

The content and delivery of content in this course are protected by copyright. Material belonging to others may have been used in this course and copied by and solely for the educational purposes of the University under license.

You may copy the course content for the purposes of private study or research, but you may not upload onto any third party site, make a further copy or sell, alter or further reproduce or distribute any part of the course content to another person.

Inclusive Learning

All students are asked to discuss any impairment related requirements privately, face to face and/or in written form with the course coordinator, lecturer or tutor.

Student Disability Services also provides support for students with a wide range of impairments, both visible and invisible, to succeed and excel at the University. For more information and contact details, please visit the [Student Disability Services' website](http://disability.auckland.ac.nz) <http://disability.auckland.ac.nz>

Special Circumstances

If your ability to complete assessed coursework is affected by illness or other personal circumstances outside of your control, contact a member of teaching staff as soon as possible before the assessment is due.

If your personal circumstances significantly affect your performance, or preparation, for an exam or eligible written test, refer to the University's [aegrotat or compassionate consideration page](https://www.auckland.ac.nz/en/students/academic-information/exams-and-final-results/during-exams/aegrotat-and-compassionate-consideration.html) <https://www.auckland.ac.nz/en/students/academic-information/exams-and-final-results/during-exams/aegrotat-and-compassionate-consideration.html>.

This should be done as soon as possible and no later than seven days after the affected test or exam date.

Learning Continuity

In the event of an unexpected disruption we undertake to maintain the continuity and standard of teaching and learning in all your courses throughout the year. If there are unexpected disruptions the University has contingency plans to ensure that access to your course continues and your assessment is fair, and not compromised. Some adjustments may need to be made in emergencies. You will be kept fully informed by your course co-ordinator, and if disruption occurs you should refer to the University Website for information about how to proceed.

Level 1: Delivered normally as specified in delivery mode

Level 2: You will not be required to attend in person. All teaching and assessment will have a remote option. The following activities will also have an on campus: Lectures and office hours.

Level 3 / 4: All teaching activities and assessments are delivered remotely

Student Charter and Responsibilities

The Student Charter assumes and acknowledges that students are active participants in the learning process and that they have responsibilities to the institution and the international community of scholars. The University expects that students will act at all times in a way that demonstrates respect for the rights of other students and staff so that the learning environment is both safe and productive. For further information visit [Student Charter](https://www.auckland.ac.nz/en/students/forms-policies-and-guidelines/student-policies-and-guidelines/student-charter.html) <https://www.auckland.ac.nz/en/students/forms-policies-and-guidelines/student-policies-and-guidelines/student-charter.html>.

Disclaimer

Elements of this outline may be subject to change. The latest information about the course will be available for enrolled students in Canvas.

In this course you may be asked to submit your coursework assessments digitally. The University reserves the right to conduct scheduled tests and examinations for this course online or through the use of computers or other electronic devices. Where tests or examinations are conducted online remote invigilation arrangements may be used. The final decision on the completion mode for a test or examination, and remote invigilation arrangements where applicable, will be advised to students at least 10 days prior to the scheduled date of the assessment, or in the case of an examination when the examination timetable is published.