<center>**ICS3/4U Final exam checklist**</center>

Note that the exam is only on Units F,H, I (ie. the material covered in Terms 2 and 3 that did not focus directly on coding). Anything from units in Term 1, or Units D, E, are not the responsibility of the student for the final exam. The skills and information from these units should be applied to the final project.

Unit F: Code Maintenance and Usage, Assignment 13

- ☐ 6 code documentation methods (what they are and how they're useful)
- ☐ Version control (what it is, why is it important, when is it used)
- ☐ Usages for version control (ie. Backup and restore, synchronization, etc)
- ☐ Key terms used for version control, and in particular, git
- ☐ Common git commands and their usage
- ☐ Tunneling and ssh (definitions, usage, importance)
- ☐ Forking and pull requests (definitions, usage, importance)

Unit H: CS and Tech Part II, Assignment 14

- ☐ How computers are different from other inventions and tools (ie. Ubiquity, temporality, etc)
- ☐ 3 stages of a computer's life and the environmental effects associated with each
- ☐ How computers can help the environment
- ☐ Health impacts of computers on human population
- ☐ Ethical issues with computers and tech
- ☐ Codes of Conduct, IEEE and ACM (how they change, when they started, basic structure)
- ☐ Moore's Law (what, when, and impact)

Unit I: Applications

- ☐ What is computer science, areas of computer science
- ☐ Areas of research in computer science, common partnering fields
- ☐ Machine learning vs Deep learning vs AI (relationship and definitions)
- ☐ History of AI
- ☐ Types of Machine Learning and subfields
- ☐ Chosen popular methods of machine learning (definition, type, use, and structure) , ie SVM, decision trees, etc

<center>**Exam structure**</center>

The exam will be marked out of 60. It will consist of 10 multiple choice questions worth one point each (marked for Knowledge), 2 short answer questions worth 15 points each (marked for Knowledge, Application, and Communication), and 1 mid to long answer discussion question worth 20 points (marked for Knowledge, Communication).

30 points (50%) -> Knowledge

20 points (33.33%) -> Communication

10 points (16.67%) -> Application