

# Why learning about operating systems

- **An exciting time for building operating systems**  
New hardware, smart devices, self-driving cars, data centers, etc.  
Facing OS issues in performance, battery life, security, isolation
- **Pervasive principles for systems in general**  
Caching, concurrency, memory management, I/O, protection
- **Understand what you use**  
System software tends to be mysterious  
Understanding OS makes you a more effective programmer
- **Complex software systems**  
Many of you will go on to work on large software projects  
OSes serve as examples of an evolution of complex systems

# CSCC69

- An introductory course on Operating Systems' design principles
  - A hands-on experience building an OS
- ➡ Theory and practice goes hand-in-hand