

# COMP SCI 3004/7064 Operating Systems

## Tutorial I-a

1. What are the three main purposes of an operating system?
2. List four steps that are necessary to run a program on a completely dedicated machine.
3. Define the essential properties of the following types of operating systems:
  - (1) Batch
  - (2) Interactive
  - (3) Time-sharing
  - (3) Distributed.
4. What are the main differences between operating systems for mainframe computers and for personal computers?
5. How does the distinction between monitor mode and user mode function as a rudimentary form of protection (security) system?
6. What are the differences between a *trap* and an *interrupt*? What is the use of each function?