Brock University
Department of Computer Science

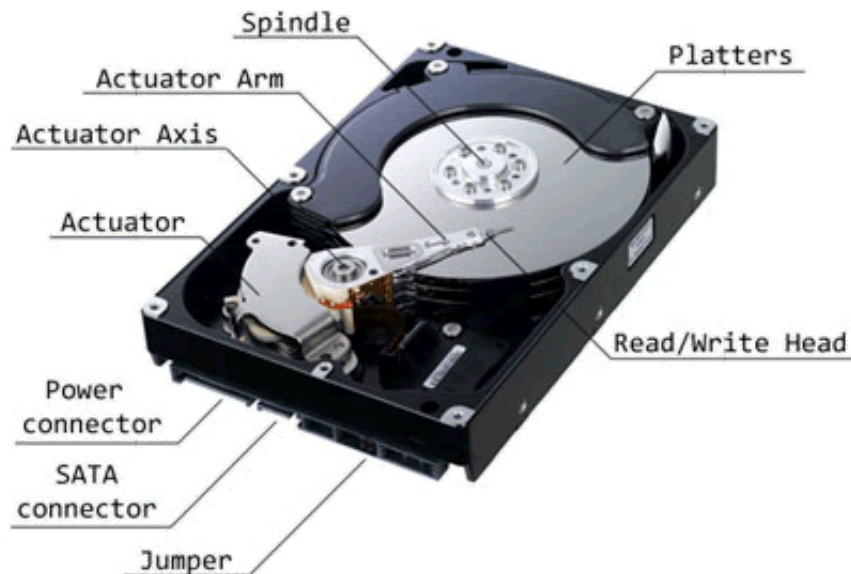## COSC 2P13: Assignment #2

Due: Fri 27 Feb 2015, 4 PM. Winter 2015 Instructor: **Vlad Wojcik**

⬤ **SURVEY OF DISK SCHEDULING STRATEGIES:**

Students are to become familiar with the purpose of disk scheduling as well as with a number of disk scheduling and optimization algorithms (including FCFS, SSTF, SCAN, C-SCAN, N-Step scan, Eschenbach Scheme and other methods, both general-purpose and for specialized disk applications).

Furthermore, the students are expected to demonstrate the ability of performing independent research. This is in line with the general course intent of giving the students a level of familiarity with the computer systems concepts permitting them to readily adapt to new operating systems after studying appropriate reference manuals. Students are expected to exhibit high-level of critical thinking, express professional opinions and recommendations of chosen algorithms to particular types of applications.

All standards of technical paper writing apply. In particular, credits (in form of references) must be given wherever they are due.

START HERE: Read the chapter on disk scheduling from the book by Harvey M. Deitel: *Introduction to Operating Systems*, Addison-Wesley 1984 and 1990. (For your convenience the book has been put on **reserve in the Library**). After that, follow your intelligence and technical common sense, wherever it may lead.

CAUTION: The Department reserves the right to scan submissions using electronic means, in order to ensure the originality of students' work.

⬤ SUBMISSION FORMAT:

Both hardcopy (paper) and electronic submission is required.

Hardcopy submission: Your submission envelope with the standard Cover Page should contain your essay on paper. The envelope should be dropped in the submission box on or before deadline date / time.

Electronic submission: Please create a directory on Sandcastle and place within it all the files (and only the files) to be submitted. To submit issue the command *submit2p13*, which is interactive in its nature. Obviously, you are allowed to submit your assignment only once. Should you encounter difficulties, please report them to Mr. Cale Fairchild.

Similarly, the electronic submission should be performed on or before deadline date / time.

⬤ NOTES:

In case a given mark is perceived unjust or unclear by a student, s/he is encouraged to see the instructor to discuss the issue. Depending on the case s/he is able to make, a mark can be modified. The deadline to contact the instructor on these matters is one week after the mark has been issued. Marks not disputed within this period will be considered final.

⬤ PENALTIES:

Possible lateness in assignment submission is counted in days, each period of a day ending at 4 PM. The penalty for late submission of assignments is 25% up to three days (or a part of a day). After that period the penalty is 100%.

While honest cooperation between students is considered appropriate, the Department considers **plagiarism** a serious offense. For clarification on these issues you are directed to the statement of **Departmental Policies and Procedures**.

Instructor: Vlad Wojcik
Revised: Wednesday, 28 January 2015
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