I. Course Description
Operating systems are important components of computer systems. Without an operating system, a computer can only be used by highly specialized professionals. An operating system makes the computer friendly to use and enables the computing resources to be utilized efficiently. This course will introduce various aspects of an operating system, including concurrency, synchronization, memory management, input/output systems, and computer security.

II. Text
Modern Operating Systems - 2e
Andrew S. Tanenbaum

*Every one is expected to have his/her own copy of this book.*

III. Course Outline
Chapter 1: Introduction
Chapter 2: Processes and Threads
   - Currency
   - Synchronization
   - Scheduling
Chapter 3: Deadlocks
Chapter 4: Memory Management

**MIDTERM**
Chapter 5: Input/Output
Chapter 6: File Systems
Chapter 9: Security

**FINAL EXAM**

IV. Evaluation
Class participation 10%
Homeworks 20% (Late will be 20% penalized for each day)
2 Quizzes 20%
Midterm 20%
Final Examination 30% (Comprehensive)

V. Grading Scale
90-100 A
80-89 B
70-79 C
60-69 D
0-59 F

VI. Ethical Responsibilities: Students are also expected to demonstrate ethical policies and practices in the course. Cheating will not be tolerated (zero Tolerance) If caught, you will receive a zero.

VII. USE OF THE SHAW UNIVERSITY LIBRARY

It is imperative that you familiarize yourself with the instructional materials that are available to you in the James E. Cheek library on campus. Not only are there numerous books, periodicals, magazine articles, encyclopedias, and newspapers on hand for your perusal in our Library. There are course textbooks and related instructional materials that your professors have placed On Reserve for you as well. In addition, there you will have access to state-of-the-art computers and laptops, which help to place the world virtually at your fingertips. Don’t wait another day. Become a regular patron at the James E. Cheek Library here on the campus of Shaw University. You’ll become a far better scholar, a more capable and well-rounded intellectual, and a sharper and more competitive individual. It’s your library. Use it!