

**Northeastern State University**  
College of Science and Health Professions  
Department of Mathematics and Computer Science  
Tahlequah, OK

**INSTRUCTOR:**

Mr. William G. King

Office: NET 327

Office Hours: MTWThF 9:00 a.m. and MWF 1:00 p.m.

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**COURSE TITLE AND NUMBER:**

Computer Operating Systems - CS 3343

**CLASS DAYS & TIME:**

11:00 a.m. M W F

**PREREQUISITES:**

CS 3173 - Basic Computer Architecture

**CATALOG DESCRIPTION OF COURSE:**

Concepts and facilities of operating systems. Topics covered included system maintenance, multiprogramming, file access methods and utilities.

**COURSE PURPOSE:**

The purpose of this course is to give the student a better understanding of design strategies for operating systems and which methods are used and why.

**STUDENT LEARNING OUTCOMES:**

The student will be expected to achieve the following objectives;

1. Understand the purpose of the operating system.
2. Learn the different operating system structures.
3. Learn how the operating system manages all executing processes.
4. Learn the different techniques of memory management.
5. Learn how the operating system manages input/output devices such as hard disk, floppy drives, keyboard, and display.
6. Learn how the operating system manages the file system.
7. The student will learn the implementation of the above using the Java Virtual Machine.

**INSTRUCTIONAL MATERIALS: (Required Textbook)**

*Operating Systems Concepts with JAVA*: Silberschatz, Galvin, and Gagne 8<sup>th</sup> Ed. John Wiley & Sons Inc. 2010.

**INSTRUCTIONAL PROCEDURES**

1. Introduction
2. Operating-System Structures
3. Exam I
4. Processes
5. Threads
6. CPU Scheduling
7. Exam II

8. Process Synchronization
9. Deadlocks
10. Main Memory
11. Virtual Memory
12. Exam III
13. File-System Interface
14. File-System Implementation
15. Final Exam

**STUDENT PERFORMANCE ACTIVITIES: (Attendance/Punctuality)**

Regular class attendance is expected. The instructor reserves the right to reduce a student's grade for excessive absences. The policy is a letter grade reduction for each four absences. Students with valid excuses such as sickness or death in the immediate family will be excused. Students are expected to arrive to class on time and be ready to take notes. Students are expected to participate in classroom discussions when appropriate. **All cell phones must be turned off during class time.**

**ASSIGNMENT DUE DATES:**

Assignments are due in class or in the instructor's office on the due date specified on the assignment.

**STUDENT EVALUATION:**

Grades will be based upon formal written examinations and written assignments. The student's grade will be based upon total points received from the following possible points:

3 hourly Examinations	300 points
Homework Assignments	200 points
Final Examination	100 points
Total Points	600 points

A student's final grade is determined by his or her percentage of the TOTAL POSSIBLE POINTS using the following grading scale:

**GRADING SCALE**

A .....	90%
B .....	80%
C .....	65%
D .....	55%

**Exam Replacement Policy:** If the student's score on the Final Exam is higher than the lowest regular Exam score, the Final Exam score will replace their lowest Exam score in determining the student's final grade.

**Homework Assignment Policy:** Assignments are due in class or in the instructor's office on the due date specified on the assignment. Students will turn in a hard copy of program assignments along with digital copies. Digital copies will be turned in through my folder on the I drive. Each student will be given a secure folder to turn in assignments on

I:\kingw\CS3343\student\_userid. The student\_userid is your campus login userid.

**Withdrawal Policy:** April 8<sup>th</sup> is the Last Day to Drop with automatic W. Last Day to drop a single class or withdraw from NSU is May 2<sup>nd</sup>.

**Final Exam:** Monday May 7<sup>th</sup> at 11:00 am.

**ADDITIONAL INFORMATION:**

Please go to <http://offices.nsuok.edu/academicaffairs/SyllabiInformation.aspx> for required information pertaining to:

1. Academic Misconduct
2. American Disabilities Act Compliance
3. Inclement Weather/Disaster Policy
4. Teach Act
5. Accessibility
6. Release of Confidential Information