Tentative Course Syllabus
TEXAS A&M UNIVERSITY – COMMERCE
CSCI 430 OPERATING SYSTEMS (OS)
CSCI 430 01E
Fall 2015 (8/31/2015 - 12/18/2015)

CLASS MEETINGS: TBA
Instructor Office Hours: TBA
by appointment via email.

INSTRUCTOR:
Ayankunle Taiwo, Ph.D.
Adjunct Assistant Professor, Department of Computer Science
Texas A&M University - Commerce
Instructor Office: TBA
e-mail: Ayankunle.Taiwo@tamuc.edu

TEXTBOOK:
Operating Systems Internals and Design Principles - 8th Edition

COURSE DESCRIPTION:
Operating Systems (OS). A study of operating systems with emphasis on a multiprogramming environment; concentrates on principles involved in resource management; topics such as job scheduling and memory management are also studied. Credit hours: 3.
Prerequisites: CSCI241: Machine Learning and Computer Organization; and CSCI270 Data Structures and Algorithms.

STUDENT LEARNING OUTCOMES:
(SLO430.1) Students will be able to identify the basic components, and functions of OS.
(SLO430.2) Students will be able to identify modern memory management techniques.
(SLO430.3) Students will be able to identify components of multiprogramming and multiuser OS.
(SLO430.4) Students will be able to identify processes, threads, and their management by the OS.
(SLO430.5) Students will be able to identify concurrent programming techniques and job scheduling.
(SLO430.6) Students will learn about some commercially available modern OS.
COURSE OUTLINE/CONTENT:

Part One: Background (Chapters 1, 2)
   Chapter 1. Computer system overview (Week 1, Week 2)
   Parts of Chapter 2. Operating system overview (Week 2, Week 3)

Part Two: Processes (Chapters 3, 4, 5, 6)
   Parts of Chapter 3. Process description and control (Week 4, Week 5)
   Parts of Chapter 4. Threads (Week 5 and 6)
   Parts of Chapter 5. Concurrency I: Mutual exclusion (Week 7, Week 8)
   Week 8: Midterm Exam
   Week 9: Spring Break (March 10 through 14, 2014)
   Parts of Chapter 6. Concurrency II: Deadlock and starvation (Week 10, Week 11)

Part Three: Memory (Chapters 7, 8)
   Parts of Chapter 7. Memory management (Week 11, 12)
   Parts of Chapter 8. Virtual memory (Week 13, Week 14)

Part Four: Scheduling (Chapters 9, 10)
   Parts of Chapter 9. Uniprocessor scheduling (Week 14, 15)
   Review of the course material; Q&A, wrap-up. (Week 15)
   Final Week: Final Exam

EXAMS & GRADING:

Quizzes 20%
Homework Assignments 30%
Midterm Exam 20%
Final Exam (Comprehensive of all the material covered) 30%

COURSE REQUIREMENTS:

Study: To plan a minimum of three hours of outside preparation for each hour of class is a safe time allocation for successfully completing the course.

Assignments: There will be regularly assigned homework problems. Assignments will be given and returned via the online eCollege system as a convenience to the students and the instructor. It is the student’s responsibility to login and check the course’s eCollege site daily for announcements, assignments and course-related content. It is very important that students follow the instructions carefully on the assignments. It is the student’s responsibility to have all assignments ready on time by the given due date. Late assignment may not be accepted or may be penalized and assignment may not be accepted beyond a certain time. Important material from the text and outside sources will be covered in class. Students should plan to take careful notes as not all material can be found in the texts or readings. Discussion is encouraged as student-procured outside material relevant to topics being covered. End of chapter activities and online activities may be assigned to reinforce material in the text.

Exams: Two exams will be given, one midterm exam and one final exam. The instructor may add other necessary exams if he sees necessary. Exams will be administered online through eCollege.

Quizzes: Unannounced pop-quizzes will be given to help ensure students stay up with assigned material. Quizzes will be administered through eCollege, and will be given every 1 to 2 weeks.

Students can see their graded assignment, quiz and exam papers during the office hours. The students have two weeks to see their graded papers after the grades are announced/uploaded to eCollege. This time duration is one week for the last assignment and for the final exam. Grades accumulated so far in the class by the students may be provided on eCollege to the students as a courtesy by the instructor so that the students can see where they stand gradewise; however, those grades might not be very
accurate and the overall course grades are finalized after all the exams, assignments, quizzes and
attendances are weighed and evaluated at the end of the semester.
The instructor maintains the right to modify the course syllabus & policies within the semester if
need arises.

ACADEMIC ETHICS:
"All students enrolled at the University shall follow the tenets of common decency and acceptable
behavior conducive to a positive learning environment." (See Student's Guide Handbook, Policies and
Procedures, Conduct). Ethics include the issue of plagiarism, and copying parts or whole of
assignments, quizzes and exams is just as serious as any other type of plagiarism. If you are caught
sharing or using other people's work, you will receive a 0 grade and a warning on the first instance. A
subsequent instance will result in receiving an F grade for the course, and possible disciplinary
proceedings. The student who shares as well as the one who copies will both receive a 0.

ATTENDANCE POLICY:
Student participation will be graded by the level of class participation and attendance. Students are
expected to attend every class. The student may fail the course if the attendance is below a certain
percentage. If a student is absent from class on the due date of any assignment, they are expected to
make alternative arrangements to assure that the assignment is turned in ON TIME. Any student
wishing to withdraw from the course must do so officially as outlined in the class schedule. THE
INSTRUCTOR CANNOT DROP OR WITHDRAW ANY STUDENT.

COURSE REQUIREMENT DEADLINES:
Credit will be given for ONLY those exam(s), program(s), and/or project(s) turned in no later than the
deadline(s) as announced by the instructor of this class unless prior arrangement has been made with
the instructor. Late assignments will be penalized, and the instructor may not accept late assignments
after a specified period.

METHOD OF EVALUATION (Tentative):
Final average Letter grade
90 – 100  A
80 – 89.99  B
70 – 79.99  C
60 – 69.99  D
Below 60  F

STUDENTS WITH DISABILITIES REQUIRING ASSISTANCE:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive
civil rights protection for persons with disabilities. Among other things, this legislation requires that all
students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of
their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library
Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu