Windows Security COSC 4365  
Department of Computing Sciences  
Spring 2017

A. COURSE INFORMATION
Course number/section: COSC 4365.001  
Class meeting time: TR 05:30-06:45PM  
Class location: CI 230  
Course Website: Blackboard

B. INSTRUCTOR INFORMATION
Instructor: Dr. Mohammed Yassine Belkhouche  
Office location: CI 305  
Office hours: TR 2:00 PM – 4:00 PM  
M 8:50 AM – 9:50 AM  
Telephone: 825-3492  
e-mail: mohammed.belkhouche@tamucc.edu  
Appointments: By e-mail

C. COURSE DESCRIPTION
Catalog Course Description
This course focuses on advanced system administration topics. An in depth understanding of various concepts such as operating systems, servers, file systems authentication, and user support services are explored. Topics include security issues, user and group administration, server and work-station integration, central repositories for updates, Active directory, DMZ, web servers, email servers, electronic system update and maintenance, backup and restoration strategies and techniques, integrated mass storage technologies and alternative client technologies.

Extended Course Description
None.

D. PREREQUISITES AND COREQUISITES
Prerequisites
COSC 2365 (Linux Systems).

Corequisites
None.

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLEIES
Required Textbook(s)
Optional Textbook(s) or Other References
None.

Supplies
None.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT
Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students should be able to:
1. Understand the basic knowledge and skills of an effective system administrator.
2. Understand the fundamental concepts underlying operating systems.
3. Understand how to effectively apply and deploy technologies and administrative tools in an organizational environment.
4. Understanding DNS and name resolution.
5. Understanding active directory.

G. INSTRUCTIONAL METHODS AND ACTIVITIES
Students are expected to attend all classes. Regular completions of all homework/project assignments/Labs on time are essential for success in this course.

H. MAJOR COURSE REQUIREMENTS AND GRADING
Your course grade will be decided on your performance in the homework assignments, quizzes, and exams. The distribution of points is as follows:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>15</td>
</tr>
<tr>
<td>Exam 2</td>
<td>15</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20</td>
</tr>
<tr>
<td>Labs</td>
<td>40</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
</tr>
</tbody>
</table>

Grading scale: A: 100-90, B: 89-80, C: 79-70, D: 69-60, and F: 59-0.
Homework/Programming Assignments: Approximately 5-6 homework assignments will be given. No late homework assignments will be accepted. Partial credit will be given for incomplete assignments.

Quizzes: Approximately 3-5 pop-up quizzes (dropping one or two). Each quiz is about 10 minutes long.

Exams: The first exam will be given on February 23, 2017, the second exam will be given on March 23, 2016 during the scheduled class time, and the final exam will be given on May 9, 2017 from 8:00 am – 10:30 am.

I. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE (BY DAY OR WEEK)</th>
<th>TOPIC</th>
<th>CHAPTER(S)</th>
<th>ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Introduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 2</td>
<td>Installing and Upgrading to Windows Server 2012 R2</td>
<td>Chapter 2</td>
<td>Lab 1</td>
</tr>
<tr>
<td>Week 3</td>
<td>Introduction to Server Core</td>
<td>Chapter 3</td>
<td></td>
</tr>
<tr>
<td>Week 4</td>
<td>Introduction to Server Core</td>
<td>Chapter 3</td>
<td>Lab 2</td>
</tr>
<tr>
<td>Week 5</td>
<td>IP Address Management and DHCP Failover</td>
<td>Chapter 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Exam 1 Thursday, February 23rd, 2017</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 6</td>
<td>DNS and Name Resolution in Windows Server 2012 R2</td>
<td>Chapter 6</td>
<td>Lab 3</td>
</tr>
<tr>
<td>Week 7</td>
<td>DNS and Name Resolution in Windows Server 2012 R2</td>
<td>Chapter 6</td>
<td></td>
</tr>
<tr>
<td>Week 8</td>
<td>Active Directory in Windows Server 2012</td>
<td>Chapter 7</td>
<td>Lab 4</td>
</tr>
<tr>
<td>Week 9</td>
<td>Spring break</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Exam 2 Thursday, March 23rd, 2017</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 10</td>
<td>Active Directory in Windows Server 2012</td>
<td>Chapter 7</td>
<td>Lab 5</td>
</tr>
<tr>
<td>Week 11</td>
<td>Creating and Managing User Accounts</td>
<td>Chapter 8</td>
<td></td>
</tr>
<tr>
<td>Week 12</td>
<td>Files, Folders, and Basic Shares</td>
<td>Chapter 13</td>
<td>Lab 6</td>
</tr>
<tr>
<td>Week 13</td>
<td>Creating and Managing Shared Folders</td>
<td>Chapter 14</td>
<td></td>
</tr>
<tr>
<td>Week 14</td>
<td>Web Server Management with IIS</td>
<td>Chapter 19</td>
<td>Lab 7</td>
</tr>
</tbody>
</table>
Week 15  |  Getting from the Office to the Road: VPNs  |  Chapter 21
---|---|---
Week 16  |  Monitoring Windows Server 2012 R2  |  Chapter 30

**Final Exam** Tuesday, May 9, 2017 from 4:30 PM-7:00 PM

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

**J. COURSE POLICIES**

**Attendance/Tardiness**
Students are responsible for all materials covered in class and assigned. Should a student be absent from class, it is his/her responsibility to get the notes, etc. for that missed class. More important, should there be assignments, it is the student responsibility to obtain such assignments. No excuse will be accepted for assignments not turned in because the student was absent when it was due.

**Late Work and Make-up Exams**
There is a penalty for late submissions. Late assignments will be counted 25% off for each day after the due time. 100% penalty (i.e. no credit) if submitted after 4 days. If you have not completed your assignment by the due date, you should submit the work you have done for partial credit. No work will be accepted once the graded work has been returned or the solution has been disclosed to the class, except for unusual circumstances which the instructor feels reasonable. If you cannot attend the class to take the exam due to some emergency or some unavoidable situation (such as serious illness, death in the family, participation in university sports, religious observations, and so on) you must notify me as soon as possible before the exam and also you must validate your absence by providing me a document (e.g., with a letter from your doctor). Once your cause is validated a make-up exam will be given.

**Cell Phone Use**
Please refrain from using electronic devices during class, as it is distracting to not only you, but also to your instructor and peers. Silence your phones and put them away so you are not tempted to stray off task.

**Laptop Use**
Laptops, Tablets cannot be used in the class.

**Food in Class**
No food in the classrooms or labs.

**Missed Exam**
In the event, if you cannot attend the class to take the exam due to some emergency or some unavoidable situation (such as serious illness, death in the family, participation in
university sports, religious observations, and so on) you must notify me as soon as possible before the exam and also you must validate your absence by providing me a document (e.g., with a letter from your doctor). Once your cause is validated a make-up exam will be given.

K. COLLEGE AND UNIVERSITY POLICIES

- **Academic Integrity (University)**
  University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

- **Classroom/Professional Behavior**
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

- **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

- **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar ([http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/)) for the last day to drop a course.
• **Grade Appeals (College of Science and Engineering)**

As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage at [http://sci.tamucc.edu/students/GradeAppeal.html](http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

• **Disability Services**

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 believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

[http://disabilityservices.tamucc.edu/](http://disabilityservices.tamucc.edu/)

• **Statement of Academic Continuity**

In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.
L. OTHER INFORMATION

- **Academic Advising**
  The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

**GENERAL DISCLAIMER**

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.