

IT-4333 Network Configuration & Administration (Spring 2019)

Instructor Information

Instructor: Dr. Xin Shirley Tian

Office: Atrium Building J378B

Email: xtian2@kennesaw.edu

Class Meeting: Online Class; Email or make an appointment with the instructor

Office Hours: Tuesday/Thursday 11:00AM- 1:30PM or have the virtual online meeting with the appointment

Contact

1. Email me directly; Email turnaround time: 24-48 hours;
2. Use D2L Discussion Forums and D2L Chat to interact with the instructor and classmates;
3. Please ONLY use your KSU email (xxxx@students.kennesaw.edu) account to contact me;
4. Sensitive information (such as your grades) can only be sent to KSU email account;
5. Please email me through KSU email account; Please DO NOT email me through D2L;
6. In the subject line of your email, please have course and section numbers;
7. If you email me but get no response, there are two possible reasons:
 - a. You emailed me through D2L, not through your KSU email account;
 - b. You did not include course # and section # in the subject line of your email;

Course Description

Prerequisite: IT-4323 Data Communication and Networking

Required Textbook

- **Network Management Fundamentals**

Author: Alexander Clemm, Cisco Press, 2007, ISBN-13: 978-1-58720-137-0;

Topics

This course continues the study of networks. Topics include design and implementation of networks including synchronization, scheduling, exception and deadlock resolution, client server and web based collaborative systems. Network security will also be covered. Cost estimates and speed are examined from a management perspective.

Learning Outcomes

Students who complete this course successfully will be able to:

- (1) Demonstrate how to manage network systems;
- (2) Apply the various management strategies to managing networks;
- (3) Describe concepts of network configuration management;
- (4) Demonstrate knowledge of SNMP, SMI, MIB, RMONI, RMON;
- (5) Demonstrate skills in configuring specialized network security software.

Grading

Grading Policy

Labs & Projects	60%
Midterm:	15%
Final Exam	25%

A: [90, 100]; B: [80, 89]; C: [70, 79]; D: [60, 69]; F: [0, 59];

Submission Rules

- All assignments will be posted on GeorgiaVIEW D2L <http://kennesaw.view.usg.edu/>;
- All assignments must be submitted through GeorgiaVIEW D2L by the deadline;
- Please double-check your submission; whatever you submit by deadline will be graded;
- All assignments will be graded within two weeks of submission;
- **No late submission will be accepted; late submission means no submission;**
- **We do not accommodate any makeup for quiz, midterm, and final exams;**

Course Outline

Course Organization

This course will be organized as weekly units: each week starts on **MONDAY** and ends on **SUNDAY**. All homework, lab assignments belonging to a particular week unit are due on **SUNDAY** at **11:59PM** of that week.

During each week, we have the following materials:

- (1) PowerPoint slides;
- (2) Assigned reading from textbook;
- (3) Links for video lectures;
- (4) Assignments;

For each content module you should:

- (1) Read the assigned sections of the textbook;
- (2) Digest the PowerPoint slides;
- (3) Take online quiz if assigned;
- (4) Finish homework assignments and submit it on time (must submit as a .doc file);

Course Calendar (tentative, subject to minor changes)

Week	Date	Course Progress	Notes
01	Jan 7 – Jan 13	Chapter 01 Setting the Stage	
02	Jan 14 – Jan 20	Chapter 03 The Basic Ingredients of Network Management	Lab 1 (LAN)
03	Jan 21 – Jan 27	Chapter 04 The Dimensions of Management I	
04	Jan 28 – Feb 3	Chapter 04 The Dimensions of Management II	
05	Feb 4 – Feb 10	Chapter 05 Management Functions and Reference Models I	Lab 2 (Router)
06	Feb 11 – Feb 17	Chapter 05 Management Functions and Reference Models II	
07	Feb 18 – Feb 24	Chapter 06 Management Information I	Lab 3 (ServerAlive)
08	Feb 25 – Mar 3	Chapter 06 Management Information II	
09	Mar 4 – Mar 10	Chapter 07 Management Communication Patterns	
10	Mar 11- Mar 17	Chapter 08 Common Management Protocols	Lab 4
11	Mar 18 – Mar 24	Chapter 09 Management Organization: Dividing the Labor	
12	Mar 25 – Mar 31	Chapter 10 Management Integration	
13	Apr 1 – Apr 7	Spring Break; NO CLASS	No Class
14	Apr 8 – Apr 14	Chapter 11 Service Level Management	
15	Apr 15 – Apr 21	Chapter 12 Management Metrics	Lab 5 (Wireshark)
16	Apr 22 – Apr 28	Wrap up the course; Prepare the final exam	
17	Apr 29 – May 5	Final Exam.	Good luck!

Course Expectations

Student Feedback

We try to improve the quality of the class as we go. So, during the semester, if you have any comments, feedback, suggestion, complaints to the instructor, please feel free to contact me and I am willing to discuss the issues with you. The discussion will improve the learning process, for both you and me. Also, the progress of the class is also subject to minor changes, depending on the feedback from students. So, any comment from students will be appreciated.

Academic Conduct

- Classroom policies: no chatting, no food/drink, no text messaging;
- Cooperation and exchange of ideas with other students are encouraged; however, you are responsible for your own work;
- Examples of cooperation that are **OK**: talking with someone about approaches to the assignment, discussing a particular problem that you are having;
- Examples of cooperation that are **NOT OK**: taking someone else's assignment and modifying it, examining someone else's solution in detail;
- Any cases involving suspected academic dishonesty result in a grade of zero for the assignment -- this penalty applies to all students involved.

Help Resources

Additional Resources

- **Contacts to get Help**
For D2L Technical Support, go to <https://d2lhelp.view.usg.edu/> or call 678-915-HELP
For D2L Student Support, go to <http://spsu.edu/d2l/student/>
For Wimba Technical Support, go to <http://www.wimba.com/services/support/>
For Emergencies call 678-915-5555
- **Additional Information**
Remote access to Library Resources <http://www.spsu.edu/library/DI/dl.html>
Business Department Resources <http://www.spsu.edu/business/webx/rc.htm>
The USG Copyright Policy can be found at <http://www.usg.edu/copyright/>

Students with Disabilities

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the counselor working with disabilities at (678) 915-7244 as soon as possible to ensure that such accommodations are implemented in a timely fashion.