

Eastern Kentucky University
CIS 375, Networks & Telecommunications (3 hours), 12503
Fall 2020

Professor: Dr. Robert C. Mahaney, Ph.D.
Office: BTC 228
Office Hours: Monday and Wednesday from 1:00 – 3:00, and by appointment
E-mail: bob.mahaney@eku.edu
Class Time: Monday and Wednesday, 3:35 – 4:50
Classroom: ~~BTC 132~~ – Blackboard Collaborate Ultra [online]

Catalog Description:

The study of networking and telecommunications fundamentals including LANs, WANs, and the Internet. Data communication and telecommunication concepts, models, standards, and protocols are studied. Installation, configuration, and management of infrastructure technologies are practiced. Prerequisite: CIS 212 or CIS 240 or INF 104 or equivalent with a grade of "C-" or better.

Textbook:

Business Data Communications & Networking, Thirteenth Edition, by Fitzgerald, Dennis, and Durcikova, Wiley (2017). [978-1-119-36883-0]

Student Learning Outcomes:

Students will learn the basic foundations of data communications, including the OSI seven-layer model and the TCP/IP five-layer model. Students will have an understanding of the available alternatives in hardware, software, and transmission facilities. Students will work individually on a research term paper on a topic related to computer networking. Students will learn how to configure prototype servers using Windows and Linux operating systems.

I expect great things from you this semester. Please expect the same from me!

Evaluation Method:

6 Quizzes:	60%
Comprehensive Final Exam	10%
Research Term Paper:	15%
Pecha-Kucha Presentation:	5%
Hands-on Lab Assignments:	5%
Attendance / Participation:	5%

The final grading scale will be:

- A: 90 - 100%
- B: 80 - 89.9%

C: 70 - 79.9%
D: 60 - 69.9%
F: < 60%

Quiz Policies:

Examinations will cover material from the textbook, additional reading, class lecture, and supplementary materials. Make-up exams will NOT be given.

Department of AFIS Attendance Policy:

Students are expected to attend class and actively participate in all aspects of the learning process. This includes class discussions, written work, and in-class activities. National and local studies have shown a direct correlation between attendance and grade performance. Therefore, attendance is considered mandatory.

Students who miss more than 20% of the regularly scheduled class meetings due to unexcused absences are subject to failing the course.

Students in this Mon/Wed section may not exceed 6 unexcused absences for the semester.

For the purposes of this course, “excused absences” include verifiable medical or family emergencies, university approved activities (accompanied by a university excuse), illness (yours or a family member’s), and other absences as outlined in the University’s “Student Absent from Class” policy.

http://policies.eku.edu/sites/policies.eku.edu/files/policies/4.1.6_student_absence_adopted_12.1.14.pdf

Students who are to be absent for participation in activities sponsored by the University shall show their instructors the official notice of such approval; the Athletics Office shall provide notice for absences due to University athletic activities. Such notice does not constitute an excuse from meeting course requirements; rather, it is an explanation of the fact that the activity has been approved as legitimate use of the school day. In the case of excused absences, student will be provided an opportunity to make up class work missed as is feasible.

To the extent possible, students should notify the instructor in advance of an absence. Students are encouraged to complete scheduled assignments prior to the absence when possible. If students cannot give advance notice of an absence, they should notify the instructor as soon as possible of the reason for the absence with appropriate documentation. Students should be prepared to document the reasons for the absence. Students whose absences are not excused will not normally be allowed to make up tests, quizzes, and/or assignments. Students who anticipate having a high number of excused absences should contact their instructor as soon as the situation arises so that they can make arrangements for how to handle missed class time. Late arrival or early departures from class that are unexcused will be considered in the tabulation of absences as well.

Regular class attendance, conscientious daily study and preparation, and completion of assigned activities are essential for learning the material and satisfying the course objectives. Students are expected to attend ALL classes (arriving on time and ready to discuss the material). Further, students are expected to come to class prepared. That is, I expect you to read the chapter and other assigned material prior to class.

(In Fall 2020, this course will meet virtually online. Still, I expect you to attend lectures and to participate in discussion.)

Last Date to Withdraw from the Course:

August 23, 2020 – Last day to drop full semester classes.

October 10, 2020 – Last day to go online (EKUDirect) and WITHDRAW from a full semester class WITHOUT incurring a fee.

November 8, 2020 – Last day to withdraw online from the University. Students will incur a \$50 per credit hour fee.

Accessibility Accommodation Statement

Eastern Kentucky University strives to make all learning experiences as accessible as possible. Students registered with the Center for Student Accessibility (CSA) should request accommodation letters from the CSA office. The Center for Student Accessibility will email your academic adjustment letter to you, or you may stop by the office for a hard copy. You will provide your letter to the course instructor(s) immediately. We strongly recommend that you discuss the accommodations needed with your instructor(s). Students who need an accommodation for a documented medical, mental health, or learning difference may register online at accessibility.eku.edu/applying-services. If you have questions, you may email the CSA office at accessibility@eku.edu or telephone at (859) 622-2933. The Americans with Disabilities Act Amendments Act (ADAAA) does not consider pregnancy a disability. Students needing accommodations due to pregnancy should contact ECU's Office of Institutional Equity, Lindsey Carter, Director, Office of Institutional Equity, Title IX Coordinator, Jones 416, (859) 622-8020, Lindsey.Carter@eku.edu.

Academic Integrity Statement

Students are advised that ECU's Academic Integrity policy will strictly be enforced in this course. The [Academic Integrity policy](#) is available at the [policy website](#). Questions regarding the policy may be directed to the Office of Student Conduct and Community Standards. For current University policies and regulations, please go to ECU's [Policy Website](#).

Discrimination and Harassment, Title IX, and Prevention Statement

ECU is committed to maintaining a respectful and inclusive environment for students, faculty, administrators, staff, and visitors that is free of all forms of discrimination and harassment, including sexual misconduct. The University supports and promotes a safe, violence-free campus through Green Dot Prevention and Education programming. To learn more about Green Dot, request a presentation, or get involved, go to <http://greendot.eku.edu/>. ECU's commitment also requires those deemed to be mandated reporters to report any incident that has affected any member of the University Community that might implicate the

University's Policy on Discrimination and Harassment to the University's Title IX Coordinator and/or the Office of Institutional Equity.

If you would like to obtain confidential help from someone who does not have to report the information, please go to <http://titleix.eku.edu/resources> for resources. The Policy on Discrimination and Harassment is available [here](#).

Reports of incidents that might implicate the Policy on Discrimination and Harassment as well as any questions regarding the Policy may be directed to: Lindsey A. Carter, [Director of the Office of Institutional Equity & Title IX Coordinator](#), Jones 416, Lindsey.Carter@eku.edu, 859-622-8020

Research Term Papers and Pecha-Kucha Presentations

Students will select a research topic (in consultation with the professor) to conduct a research project and develop a research paper. The paper and presentation will be **due Monday, November 23, at 11:59PM**. The paper shall be about five to eight pages in length, double-spaced. Each student will also develop a PowerPoint slide presentation following the Pecha-Kucha format (www.pechakucha.com). These presentation will be 12 to 15 slides in length, with auto-advance after 20 seconds (for a total presentation duration of 4 to 5 minutes). Students will record their Pecha-Kucha presentation as a narrated PowerPoint file and upload the narrated file to Blackboard.

Hands-on Lab Assignments

Each chapter in our textbook has Hands-On Activities. Several of these will be assigned throughout the semester.

Academic Integrity Policy

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Important notice regarding Syllabus Changes

Dates and assignments documented in this syllabus are subject to change at the discretion of the instructor. Every effort will be made to provide any changes to the class in writing. Verbal notification at a class meeting, however, will constitute sufficient notice.

Official E-mail:

An official EKU e-mail is established for each registered student, each faculty member, and each staff member. All university communications sent via e-mail will be sent to this EKU e-mail address. (I will post announcements to Blackboard or send email messages via Blackboard.)

Tentative Semester Schedule (subject to change)

Week	Date	Topics
1	Aug 17	Course Introduction Student Information Sheets Syllabus Course Learning Objectives Abbreviated Glossary of Terms
	Aug 19	Chapter 1 – Introduction to Data Communications
2	Aug 24	Ch 1 (cont.)
	Aug 26	Part Two – Fundamental Concepts Chapter 2 – Application Layer
3	Aug 31	Ch 2 (cont.)
	Sept 2	Chapter 3 – Physical Layer
4	Sept 7	Labor Day – No Classes
	Sept 9	Ch 3 (cont.)
5	Sept 14	Chapter 4 – Data Link Layer
	Sept 16	Ch 4 (cont.)
6	Sept 21	Chapter 5 – Network and Transport Layers
	Sept 23	Ch 5 (cont.)
7	Sept 28	Chapter 6 – Network Design
	Sept 30	Ch 6 (cont.)
8	Oct 5	Chapter 7 – Wired and Wireless Local Area Networks
	Oct 7	Ch 7 (cont.)
9	Oct 12	Ch 7 (cont.)
	Oct 14	Chapter 8 – Backbone Network
10	Oct 19	Ch 8 (cont.)
	Oct 21	Chapter 9 – Wide Area Networks
11	Oct 26	Ch 9 (cont.)
	Oct 38	Chapter 10 – The Internet
12	Nov 2	Ch 10 (cont.)
	Nov 4	Chapter 11 – Network Security
13	Nov 9	Ch 11 (cont.)
	Nov 11	Ch 11 (cont.)
14	Nov 16	Chapter 12 – Network Management
	Nov 18	Ch 12 (cont.)
	Nov 23	Research Papers due and Presentations due at 11:59PM

15	Nov 25	Last day of class Review for Comprehensive Final Exam
16	Nov 30	Virtual Office Hours
	Dec 1	Comprehensive Final Exam Due – 1-hour Limit
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EKU Academic Integrity Policy

Academic Dishonesty Defined

Academic integrity is a fundamental value for the Eastern Kentucky University community of students, faculty, and staff. It should be clearly understood that academic dishonesty is not tolerated and incidents of it will have serious consequences. **Anyone who knowingly assists in any form of academic dishonesty shall be considered as responsible as the student who accepts such assistance and shall be subject to the same sanctions.** Academic dishonesty can occur in different forms, some of which include cheating, plagiarism, and fabrication.

Cheating

Cheating is an act or an attempted act of deception by which a student seeks to misrepresent that he/she has mastered information on an academic exercise. Cheating includes, but is not limited to:

- **Giving or receiving assistance not authorized by the instructor or University representative;**
- Participating in unauthorized collaboration on an academic exercise;
- Using unapproved or misusing electronic devices or aids during an academic exercise.

Plagiarism

Plagiarism occurs when a student represents work taken from another source as his/her own. It is imperative that a student gives credit to information, words, ideas, and images that are integrated into his/her own work. Acknowledgement of a source of information in any form should consist of complete, accurate, and specific references and, if verbatim statements are included, quotation marks as well. Examples of plagiarism include, but are not limited to:

- Using words, ideas, or images from another source (including the Internet); whether in quotation marks or not, without giving credit to that source in the form of a bibliographic citation;
- Facts, statistics, or other supporting materials that are not clearly common knowledge without acknowledgment of the source.

Fabrication

Fabrication is a form of deception and occurs when a student misrepresents written or verbal information in an academic exercise. Fabrication includes, but is not limited to:

- Citation of information not taken from the source indicated. This may include the incorrect documentation of secondary source materials;
- Listing sources in a bibliography not directly used in the academic exercise;
- Submission in a paper, thesis, lab report, practicum log, or other academic exercise of falsified, invented, or fictitious data or evidence, or deliberate and knowing concealment or distortion of the true nature, origin, or function of such data or evidence;
- **Submitting as your own any academic exercise (verbal, written, electronic, or artistic work) prepared totally or in part by another person.**