KUTZTOWN UNIVERSITY
Department of Computer Science and Information Technology

Course Title: **CPSC 311 (Sec 010) – Computer Networks (Fall 2025)**

Instructor: Dr. Charlie Y. Shim

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Office: OM 262

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Office Hours: M, W   1:00PM – 3:00PM (OM 262)
                                     T, TH   9:00AM – 9:30AM (OM 262)
                                     or by appointment

Meeting Time & Place: M, W   3:00PM – 4:15PM, OM 159

Course Description: Computer networks have become ubiquitous in our society. In-depth understanding of their workings is an important part of the foundation of knowledge not only for a computer science student who intends to incorporate networking in their scholastic or professional endeavors, but for anyone working in the discipline, as networking concepts are applicable in many areas inside and outside the discipline. The students will learn the terminology and implementation of computer networks, and the physical components of networks, including cabling and devices, as well as how these components work. Several application layer protocols will also be studied, including HTTP, E-mail, DNS and DHCP.

Prerequisite: CPSC 237 or CPSC 253 **AND** Junior Status

Course Objectives: Upon satisfactory completion of this course the student will be able to:

A. Define basic terminology common to networking.

B. Describe the two types of switching used in networks, circuit and packet.

C. Explain the various hardware, such as hubs, switches, and routers used to permit networks to communicate.

D. Summarize the layers of the OSI and Internet architecture stacks.

E. Describe how several common application-layer protocols work, such as HTTP, FTP SMTP and DNS.

F. Summarize the workings of the two primary transport-layer protocols, TCP and UDP.

G. Summarize the network-layer functionality, including IP, the primary protocol for that layer.

Textbook: *Computer Networking, A Top-Down Approach (8th Edition)*
         By Jim Kurose and Keith Ross (Publisher: Pearson) (ISBN: 9780135928523)

Grading:

Midterm Exam	20 %	
Final Exam	30%	
Assignments	30 %	
Quiz	20 %	

Total Points 100 %

Your final grade in the course will be given according to the following scale:
A $\geq$ 90%, B $\geq$ 80%, C $\geq$ 70%, D $\geq$ 60%, F < 60%

Attendance: Lecture attendance is strongly encouraged. You are responsible for all material covered during lectures whether you are present or not. You are also expected to have read the appropriate sections of the text prior to the lecture. Unannounced quizzes will be given frequently throughout the semester. Makeup quizzes will not be given.

Exams: There will be a 100-point midterm exam and a 100-point comprehensive final exam. Make up exams will be given to those students, who have official University functions or other well-documented circumstances, such as hospital confinement. Please inform instructor well in advance of such circumstances. Makeup should be completed within one week of the exam date or you will receive a grade of zero.

Homework: Start on homework as soon as it is assigned. Homework must be handed in at the beginning of class on the due date. Late assignments will have a reduction in points of 10% per day and **absolutely** no late homework assignment will be accepted if they are **more than two days late**. It is important to complete the reading assignment before the next class.

Accreditation: Assignments, exams, and quizzes may be photo-copied and retained for program accreditation.

E-Mail Correspondence: Students are **REQUIRED to use their Kutztown University e-mail account** for all e-mail correspondence with the course instructor. Please indicate the course number (enclosed in square brackets) in the subject line.

Course Etiquette and Behavior: Students will demonstrate respect for the instructor and other students in the classroom and lab. This includes unacceptable language usage in the classroom and laboratory. The course instructor will report behavior that is disruptive to the positive learning environment. A warning will be issued on the **first instance** and will be reported to the department chairperson. On a **second instance**, the student will be referred to the Provost's Office.

Academic Dishonesty: Plagiarism and cheating are serious offences and may be punished by failure on exam, paper or project; failure in the course; and/or expulsion from the University. Academic dishonesty includes the following actions, as well as other similar conduct aimed at making false representation with respect to the student's academic performance:
  (1) Cheating on an exam or quiz,
  (2) Collaborating with other students on work to be presented, if contrary to the stated rules of the course,
  (3) Submitting, if contrary to the rules of the course, work previously submitted in another course,
  (4) Copying or changing programs done by other students and submitting it as their own,
  (5) Plagiarism.
For more information, visit the Computer Science department's academic integrity policy, located at:
https://www.kutztown.edu/Departments-Offices/A-F/ComputerScienceInformationTechnology/Documents/Student%20Resources/AcademicIntegrityPolicy.pdf.

Accommodations: Persons with a disability, and who require accommodation, should notify the Disability Services Office two weeks prior to the event at 610-683-4108 or email DSO@kutztown.edu in order to discuss accommodations. Every effort will be made to provide reasonable accommodations. Please note: Kutztown University does not provide wheelchairs or other mobility devices.

Non-discrimination statement: Kutztown University does not discriminate in employment or educational opportunities on the basis of sex, race, ethnicity, national origin, age, disability, religion, sexual orientation, gender identity or veteran status. To discuss a complaint of discrimination, please contact the University's Title IX Coordinator located in the Office of Social Equity, Old Main A-Wing, Room 02, by phone at 610-683-4700 or by email at pena@kutztown.edu.