

# EECS 325/425 Computer Networks I

An Wang

# Introduction

- Ph.D. from CS Dept., George Mason University
- Research Interest: software-defined networking, data center and cloud security, IoT and edge computing
- Research Goal: address security and scalability issues through innovation in network architecture, cloud and data center systems

# Class Information

- Instructor: An Wang
- Office: Olin 407
- Email: axw474@case.edu
- Office hours: Thursday 2:15 p.m. – 4:15 p.m. or by appointment
- Course page: **All materials and assignments will be updated in Canvas**
- Prerequisite: EECS 233 (or equivalent)
- We will use emails for communications; you must have a Case account and check the account for messages periodically, if not daily.

# Textbooks & Resources

- Recommended: Kurose & Ross, [Computer Networking – A Top-Down Approach \(7<sup>th</sup> Edition\)](#), Wesley
- Recommended: Larry Peterson and Bruce Davie, [Computer Networks –A Systems Approach \(5<sup>th</sup> Edition\)](#), Morgan Kaufmann
- Software & Tutorial Resources
  - [VirtualBox](#) Environment
  - Course virtual machine image
    - [Hints on VM Setup](#)
  - [Mininet](#): Virtual network emulation environment
    - [Mininet Walkthrough](#)
  - Get familiar with C & Python languages
- Keep an eye on for networking research
  - SIGCOMM, NSDI, INFOCOM, ICNP, IMC ...

# Tentative Course Topics

- Computer Networks and the Internet
- Application Layer
- Transport Layer
- The Network Layer: Data Plane and Control Plane
- The Link Layer and LANs
- Security in Computer Networks
- Multimedia Networking

# Important Dates

- First class: Jan 14<sup>th</sup>
- Last day to drop/register: Jan 25<sup>th</sup>
- Spring break: Mar 11<sup>th</sup> – 15<sup>th</sup>
- Midterm: Mar 7<sup>th</sup> (Tentative)
- Last class: Apr 25<sup>th</sup>
- Final exam: May 2<sup>nd</sup>

# Grading

- Programming assignments – 20%
  - NO credit if your code does not compile
  - Unless under prearranged conditions, late homework/projects lose 20% credit within 3 days after the respective deadlines and will not be accepted 3 days after due
- Homework – 15%
  - Questions from textbook
- Midterm – 30%
- Final – 35%
- Grading is proficiency-based. Cutoffs will be in the vicinity of, but not higher than:  
A > 90%, B > 80%, C > 70%

# Important Notes

- Missed exams must be arranged with the instructor at least a week **BEFORE** the exam date.
- Follow links in the syllabus for
  - Disability
  - School Calendar
  - Honor Code – homework and project are **INDIVIDUAL** efforts.



# Important Notes (con't)

- **Projects:** a project is always due by 11:59 PM on the Monday or Wednesday before the class date, unless specified otherwise.
  - Please submit your project code to Canvas.
- **Homework:** Submit before the class (Tuesday or Thursday 1:00 PM) on the class date. Please type write your homework. Otherwise, it is at the grader's discretion on your handwriting.