Data Communication and Networks	**Course Syllabus**
CSCI-351 Fall 2019	**August 26, 2019**

Location	Golisano Hall (GOL)-1455
Time	Tuesday and Thursday 9:30AM–10:45AM
Web site	`https://taejoong.github.io/courses/csci-351/`
Forum	`https://mycourses.rit.edu/d2l/home/767561`
Instructor	Prof. Taejoong (Tijay) Chung
Contact	`tjc@cs.rit.edu` (put "[CSCI-351]" in the subject line)
Office hours	Tuesday, 2:00PM–3:30PM, GOL-3525

DESCRIPTION (from the Registrar)

This course is an in-depth study of data communications and networks. The course covers design of, and algorithms and protocols used in, the physical, data link, network, transport, and application layers in the Internet; methods for modeling and analyzing networks, including graphs, graph algorithms, and discrete event simulation; and an introduction to network science. Programming projects will be required.

DESCRIPTION (from me)

We'll be studying how the Internet really works, and how one builds applications on top of it. The course will be hands-on.hard.

LOGISTICS

The class will twice per week for 75-minute sessions, plus a midterm and final exam. The midterm exam will be administered during a regular class session. you to attend class, but special requests will be treated with particular suspicion if I do not recognize you from lecture.

TEXTBOOK

The recommended (but not required) textbooks for the course is

Peterson and Davie. *Computer Networks: A Systems Approach, 5th Ed*. 978-0123705488.

QUIZZES

This course will have ~8 quizzes reviewing concepts in class. Quizzes are to be done by each student individually. The answers for the quizzes will be uploaded within a week.

PROGRAMMING PROJECTS

The goal of this course is to teach the fundamentals of networks as well as how to write programs for it. As such, there will be upto four programming projects throughout the semester.

Programming projects are due at 11:59:59pm on the specified date. The projects will be marked 10% off per day that they are late, up to 4 days.

TEAMWORK

You will form groups of two people to do the programming projects (if necessary, one group of three will be allowed). To collaborate effectively, you should both be involved in all of the major design decisions. You may switch groups between programming projects.

Important: *You alone are responsible for finding a partner.*

SUBMITTING PROJECTS

TBD

EXAMS

There will be one midterm and one final. All exams will be closed book and closed notes, and computers are not allowed nor is any access to the Internet via any device. The exams will cover material from lectures, readings, and the projects. The final will be cumulative. and second halves of the class, respectively (i.e., they are not cumulative).

GRADING

The breakdown of the grades in this course is

40%	*Projects*
25%	*Midterm*
35%	*final*

Each project and homework will include a breakdown and description of how it will be graded.

Any requests for grade changes or regrading must be made within 7 days of when the work was returned. To ask for a regrade, attach to your work a page that specifies (a) the problem or problems you want to be regraded, and (b) for each of these problems, why do you think the problem was misgraded.

ON CHEATING

It's ok *to ask someone about the concepts, algorithms, or approaches needed to do the assignments. We encourage you to do so; both giving and taking advice will help you to learn. However, what you turn in must be your own, or for projects, your group's own work; looking at or copying other people's code, solution sets, or from any other sources is* strictly prohibited. *In particular, looking at other solutions (e.g., someone else's solution to a similar project) is a direct violation. The project assignments must be* entirely *the work of the students turning them in.*