## COMP 529 – Advanced Network Topics – Spring 2017

Professor: Dr. Vahab Pournaghshband (e-mail: vahab@csun.edu)
Instructor's Webpage: www.csun.edu/ansr/vahab
LMS: moodle.csun.edu
Course Webpage: http://lasr.cs.ucla.edu/vahab/comp529
Lectures: JD 1618 - T 7:00-9:45PM
Office Hours: JD 4421 - Th 6:00-7:00PM

**Course Description and Objectives.** From the Catalog: COMP 529. Advanced Network Topics (3). Prerequisites: COMP 429. Architectural principles: naming, addressing, routing; congestion control, traffic management, QoS; wireless networks; overlay networks and virtualization; queueing theory; measurements; network security; switching and routing; content distribution; and proposals for future Internet structures.

Textbook: Computer Networks (5th Edition) - Tanenbaum

Course Outline. The following topics will be covered in this course:

- Computer Networks Fundamentals
- Quality of Service
- Queueing theory
- Middleboxes
- Network security
- Recent research topics in computer networks
- Other

**Grading:** You will receive a letter grade for the class (Plus/Minus grading will be used), based upon the following weighted list:

- Project: 40%
- Assignments: 5%
- Scribe Notes: 10%
- Exam 1: (March 14th): 15%
- Exam 2: (May 9th): 30%

Your combined percentage can be converted to a letter grade using the table below. Required percentages may be slightly reduced at the instructors discretion, but it won't increase.

| Α | 92% | A- | 90% | B+ | 88% | В | 82% | B- | 80% | C+ | 78% |
|---|-----|----|-----|----|-----|---|-----|----|-----|----|-----|
| C | 72% | C- | 70% | D+ | 68% | D | 62% | D- | 60% | F  | 0%  |

Exams. Duration of each exam is 120 minutes. All exams are closed books, notes, and electronic devices.

**Assignments.** The assignments (essays, homeworks, etc) will be posted on the course webpage along with their due dates. The students' solution to those will be submitted also via Moodle. The assignments are to be done individually. Late submissions will not be accepted and will receive no credit.

**Project.** The project will be posted on the course webpage. The course project will be done in groups. The students' solution to that (all deliverables: code, documents, slides, etc) will be submitted also via Moodle. Late submissions will not be accepted and will receive no credit.

**Course Webpage.** The URL for the course website is http://lasr.cs.ucla.edu/vahab/comp529. You must check the webpage for announcements at least once every other weekday. Important announcements will be announced in the lecture, and posted on the course webpage. The credentials (username and password) to access the password protected sections of the webpage will be announced in the first class. You may ask the professor for this information as well.

Academic Dishonesty: The typical penalty for any form of academic dishonesty is as follows:

- First offense: a grade of 0% on the assignment or exam in question
- Further offense: F for the course and being reported to the Vice President for Student Affairs

Except the project, all assignments and exams in this course are to be done individually (not in groups). Note that facilitating the academic dishonesty of others is a form of academic dishonesty. Further details about academic dishonesty can be found in Appendix E of the CSUN catalog (www.csun.edu/catalog). If there is any doubt as to what constitutes academic dishonesty ask the professor.

**Disability Resource and Educational Services (DRES):** If you have a disability and need accommodations, please register with the Disability Resources and Educational Services (DRES) office or the National Center on Deafness (NCOD). The DRES office is located in Bayramian Hall, room 110 and can be reached at 818.677.2684. NCOD is located on Bertrand Street in Jeanne Chisholm Hall and can be reached at 818.677.2611. If you would like to discuss your need for accommodations with me, please contact me to set up an appointment.

**Changes to Syllabus.** Changes may be needed to this syllabus and to the course plan. All such changes will be announced in class and will be announced via e-mail. Students are responsible for this information.