



ELEC 419-91, Computer Network Architecture
Course Syllabus for Summer 2017
TR 5:15pm – 8:00pm, Room: Grimsley 305

Instructor: Jason S. Skinner, Ph.D., P.E.
Office: Grimsley 310
Phone: 843-953-3352
Email: jason.skinner@citadel.edu
Schedule: http://ece.citadel.edu/skinner/schedule

Office Hours: TR 3pm-5pm, and by appointment

Textbook: Computer Networking: A Top-Down Approach, 6th Edition
by Jim Kurose and Keith Ross – Student Companion Site

Objective: A first course in computer communications, which introduces the problems, solutions, and limitations associated with interconnecting computers by communication networks. The five-layer Internet protocol stack serves as a framework for the course with major emphasis on the physical layer standards, data link protocols, and network and transport layer protocols. Topics include: modems, baseband and broadband communications, HDLC, Ethernet and token ring LANs, cell and frame relay networks, bridges, routers, services of the upper layers (Network, Transport, Application), and network security.

Description: This course will cover network architectures and protocols. Included are transmission technologies, encoding/decoding schemes, packet switching, circuit switching, TCP/IP, network management, and network security.

Websites: Professor - http://ece.citadel.edu/skinner
Course - http://citlearn.blackboard.com
The course website will be used to post course information (such as this syllabus), lecture slides and notes, project assignments, corrections and answers to questions about assignments, and individual grades.

Important Dates:

- Thursday, June 29 ... Last Day to Drop/Add a Course
Tuesday, July 4 ... Independence Day (No Classes)
Tuesday, July 18 ... Test 1 (tentative)
Thursday, July 20 ... Last Day to Withdraw with Grade of "W"
Tuesday, August 1 ... Test 2 (tentative)
Thursday, August 10 ... Final Exam

## Course Outline:

Reading	Topics	Time Frame (approx)
Chapter 1	Course Overview, Introduction	225 minutes
Chapter 2	The Application Layer	225 minutes
Chapter 3	The Transport Layer	225 minutes
<b>Test 1</b>	<b>Chapters 1 – 3</b>	<b>July 18</b>
Chapter 4	The Network Layer	225 minutes
Chapter 5	The Link Layer	225 minutes
Chapter 6	Wireless and Mobile Networks	225 minutes
<b>Test 2</b>	<b>Chapters 4 – 6</b>	<b>August 1</b>
Chapter 7	Multimedia Networking	150 minutes
Chapter 8	Computer Network Security	150 minutes
Chapter 9	Network Management	150 minutes
<b>Final Exam</b>	<b>Chapters 1 – 9</b>	<b>August 10</b>

**Attendance:** Attendance is mandatory. Unless circumstances preclude it, it is your responsibility to notify Dr. Skinner of any schedule conflicts or excused absences that will result in your missing class. It is college policy that a grade of F may be awarded to a student if that student misses more than 20% of the course meetings (excused or unexcused). For this course, **3 classes** constitute 20% of the class meetings.

**Classroom Decorum:** No food or drink is permitted in the classrooms of this building. Proper attire is encouraged, and ECE department policy prohibits hats, cutoffs, shorts, tank tops, and feet without socks in class.

**Special Needs** Students currently documented or anticipate being documented as Learning Disabled (LD), as having Attention Deficit Disorder (ADD), or with another condition for which you might need special accommodation during the semester must provide written documentation of the condition and of the accommodation needed to me within two weeks of the semester start. You may then choose, by notifying Dr. Skinner before the start of each exam or assignment, whether you will need any accommodation. Notification after the start of an exam or last minute notification on an assignment will not be accepted. Please Note: To request academic accommodations (for example, a note taker), students must also register with Academic Support/Special Services, 953-1820, located in Thompson Hall. It is the campus office responsible for reviewing documentation provided by students requesting academic accommodations, and for accommodations planning in cooperation with students and instructors, as needed and consistent with course requirements.

**Projects:** There will be projects assigned throughout the semester. Each project must be your own work. **Collaboration is not allowed on projects.**

**Tests:** There will be two in-class tests and one final exam. The final exam will be cumulative. Assigned tests are required. Tests take precedence over all other duties or activities unless authorized to the contrary by Dr. Skinner. If you know you will miss an test, you must let Dr. Skinner know as soon as possible so a make-up test time can be arranged. Make-up tests will only be given for those students that have made a reasonable attempt to contact Dr. Skinner. **Collaboration is not allowed on tests or final exams.**

**Grading:** Students will be graded on everything that is required to be turned in. All exams are scheduled well in advance. Due to the potential unfairness of make-up exams, they will only be given in extreme circumstances. Your final grade in the course will be determined as follows:

Projects .....	30%
Tests .....	each 20%
Final Exam .....	30%

The grading scale used in this course is:  
A = 90 – 100, B = 80 – 89, C = 70 – 79, D = 60 – 69, F = 59 or below.

**Cheating and Collaborative Work** According to The Citadel’s policies for the preparation of work performed outside the classroom:

All papers, reports, senior essays, theses, or other written work performed outside the classroom for which a grade is received will be the individual’s work and is subject to the limitations imposed by the definition of plagiarism.

According to Webster’s New International Dictionary, 3rd Edition: to plagiarize is defined as ”to steal and pass off as one’s own the ideas or words of another” or to ”present as new and original an idea or product derived from an existing source.”

**CHEATING IN ANY FORM WILL BE FULLY PROSECUTED.**