# CS4122 Data Communications & Computer Networks II, Section A

Semest er Spring 209

Class Room TBD
Prerequisite CS4121

Course Objective This course aims at synchronizing students with sevietnahced

areas in data communications and computer networks, including Ethernet and CSMA/CD protocoff,DDI and timely token passing, ATM and leakybucketcell admission control, wireless/mobile networks and mobility management principles, multimedia networking and/ideo streaming, network security and data cryptography, etcStudents are exposed to the underlying theory, algorithms, and protocols itetails, sometimes down to the bit level. Networking related problem analysiscP/IP and UDP/IP socket programming Java presentations (on some generalics of networking) are the three major components in this class.

### Learning Out comes

On successful completion of this course, the student shoeulable to

- 1. Describe the fundamentatinciples and coremechanism in advanced areas like Etherne F,DDI, ATM, wireless networking, multimedia networking, network security, etc.
- 2. Apply such principles in analyzing real world protocols rigorously, even some of which may not familiar.
- 3. Accomplish clientserver projects sing TCP/IP and UDP/IP sockets in Java. Beyond basic socket programming, they are also fluent in coding messatgeming (encoding) anφarsing (decoding), multithreaded server, and thread pooling.
- 4. Communicate networking ideas using correct representiation both written and oral forms.

I nst r uct or Dr. Zhiguang Xu Of f ice 2159,Nevins Hall

Office Hours TBD

Phone 229-333-5783

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Text book(s) Computer Networking, A Top-Down Approach featuring the Internet, 2<sup>nd</sup> edition (Required)

By James F. Kurose, and Keith W. Ross
Publisher: AddisorWesley

Grading scale:

Final Grade	Credit
А	90-100 (including 90)
В	80-89 (including 80)
$\mathbf{C}$	70-79 (including 70)
D	60-69 (including 60)
$\mathbf{F}$	0-59

## Course Policy rules

For the sake of course efficiency, please observe the following

Late assignment will NOT be accepted. You must turn in assignments at the beginning of the class on the due date.

Absolutely No Cheating on tests and/or final exam.dan result in total dismissal from VSU.

### Attendance and Absence

You are expected for every scheduled class meeting (be on time and stay for the full class period).

Try every effort to attend the tests because there is NO make up test.

#### ADA

Students requiring classroom accommodations or modifications because of a documented disability

should discuss this need with me at the beginning of the semester.

For additional information, please

contact the Special Service Program in Room 1115 Nethants

The Special Services office may be reached by telephone at 2295-2498.

Important Dates

**TBD**