

CSCE 515: Computer Network Programming  
Syllabus  
Fall 2008

- **Course Description.** CSCE 515 is a course focusing on the programming aspects of computer networks. The goal of this course is to understand the current trends of communication protocols, socket programming, interprocess communication, and to understand how network research is done. We will cover the network programming in both wired networks and wireless networks.
- **Course Specifics.**
  - Place and Time: MW 2:30PM- 3:45PM, [SWG N 2A21](#)
  - Instructor Office Hours: MW 4:00PM- 5:00PM or by appointment
  - Course website: <http://www.cse.sc.edu/~wyxu/515Fall08/csce515.html>
- **Prerequisites.** CSCE 311 Operating Systems. A quick barometer: Do you know what a process is? Can you program using C? Can you program using JAVA? You should answer yes to all three of these questions.
- **Textbooks:**
  - [TCP/IP Illustrated Volumes 1](#), by W. Richard Stevens, published by Addison-Wesley, 1994.
  - [Unix Network Programming, The Sockets Networking API, Volumes 1](#), by W Richard Stevens, Bill Fenner, Andrew M. Rudoff, published by Addison-Wesley
- **Expected Work.** Homework assignments (0%), four computer projects (50%), one midterm (20%), and one final (30%).
  - Homework (0%): There will be one or two homework assignments. You don't need to turn in the homework, but homework will definitely help you with exams.
  - Computer Projects (50%): Programming is the focus of this course. Thus, be prepared to commit yourself to the projects. There will be four projects. All four projects are individual projects, whose purpose is to give you hands on experience with the concepts taught in the class. DO NOT copy code from others!
  - All the projects are to be executed and graded on Unix/Linux machines. *A grade of zero will be given, if your programs cannot be compiled and executed on Unix/Linux machines* (Can you imagine a company delivers a software produce that cannot be executed in clients' computers?) You should report your projects in a short write up as well. The writeups will be graded based upon the technical content and the clarity of the exposition. The programs will be graded based on the amount of the required functionalities that has been implemented. Projects can only be submitted through Drop box and no late project will be accepted.
  - Midterms (20%): At least one week notice will be given in class to allow you to prepare for exams. The exam is closed book. No notes sheets are allowed, and the exam will cover course material discussed in class and used in projects.
  - Final (30%): The final exam is closed book, and comprehensive. Any material covered in class is fair game. But I reserve the right to examine your ability to go beyond the basic course material.
- **The grading scale.**
  - A : 90 — 100
  - B+ : 87 — 89
  - B : 80 — 86
  - C+ : 77 — 79
  - C : 70 — 76
  - D : 60 — 69
  - F <= 59

- **Integrity Policies.** PLEASE DO YOUR OWN WORK! You get no return for your time and money spent at the University by cheating. As such, cheating and plagiarism will not be tolerated, will be reported to the proper University officials, and will be followed up on.
  
- **Email Policies**
  - Make sure you put your course (CSCE515) in the subject of the message. I get roughly 400 spam messages a day. If you don't, your mail may be tagged as spam, which means I would not get it.
  
  - Remember that it is not my emergency if you need help at the last minute. I may check my emails in time to help you make a deadline, but this may not necessarily be the case. Even if I check my emails, I may not have the time to reply if it's an involved problem. Bottom line: don't rely on emails!
  
  - In general I will monitor and respond to emails during office hours, but in-person students will take precedence. I will check emails several times a day, but don't plan to have regular email hours outside of office hours. Again, make sure you don't rely on it - it will backfire!