Shaw University
College of Graduate and Professional Studies
Department of Computer Information Science

Dept Chair: Dr. W. Johnson, Professor
Office: 3 Office Phone: 546-8383 E-mail: wjohnson@shawu.edu

CIS 432

Spring Semester 2003

I. Locator Information

Course Number & Name: CIS 432 Computer Network and Telecommunication

Semester Hours: 3

Instructor’s Name: Dr. W. Johnson Office Location Graphics # 3

Telephone Number: 546-8383 e-mail: wjohnson@shawu.edu

Class Location: Science 301

Class Day & Time: T-H 1:00-2:15

Office Hours: Mon, Wed, and Friday 11:00,12:30
Tue, and Th 11:00-12:00
All other hours by appointment Only!

Final Examine Day & Time: Thu May 1, 2003 12:30-2:30
client of distributed computing (naming, security, caching, synchronization) and the design of network services (multimedia, file and web servers) data communications, also, included is digital data communication techniques; data link controls, multiplexing and design of networks. This course focuses on a disciplined approach to designing, coding, evaluating, and testing of communication methods. Topics include data abstraction, data structures, and searching and sorting algorithms.

Textbook

Computer Networks A Systems Approach, Larry Peterson, Bruce S. Davie, Morgan Kaufmann publishers.

Optional


Understanding Networked Applications: A First Course, David G. Messerschmitt, Morgan Kaufmann publishers.

IV. Specific Course Objectives

To understand the collection of related technologies supporting a broad range of geographically distributed computer applications. Knowing how a computer application is a software program that provides direct and specific value to a user or an organization, and a networked application distributes programs across two or more computers, which then collaborate in realizing the application.

Understanding the top-down approach, beginning with applications and then peeling away the layers of technology, business, and economic issues that impact and support these applications.

Understanding the application, the architecture of both the application and the infrastructure that supports it, the supplier industry and the government, the acquisition of the application and how it fits in its context, the computing and networking infrastructure that supports the application, and proper attention to performance and quality.

Understand networked application uses information technology to provide capability and functionality for the benefit of users, groups of users, organizations, and commerce.

V. Course Competencies
At the end of the course, student should understand and be able to apply the knowledge depicted in the parts 1, 2, 3, 4, 5, and 6 of the text.

VI. Attendance at lectures is expected. Students are fully responsible for all material presented in the lectures.

VII. Evaluation Criteria

Exams are scheduled in advance. Unless prior arrangements are made, a grade of zero will be recorded for missed exams.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two highest scores of the three test</td>
<td>30%</td>
</tr>
<tr>
<td>10-20 Homework assignments</td>
<td>30%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>40%</td>
</tr>
</tbody>
</table>

Grading Scale:
- A 92-100
- B 83-91
- C 73-82
- D 64-72
- F 63 or below

VIII. Ethical Responsibilities: Students are also expected to demonstrate ethical policies and practices in the course. Cheating will not be tolerated (zero Tolerance) If caught, you will receive a zero.

IX. Course Outline with Assignment Schedule

Week 1,2 Chapter 1 Homework Assignment #1
Week 3,4 Chapter 2, 3 Homework Assignment #2
Week 5,6 Chapter 4, 5, 6, Homework Assignment #3
Week 7,8 Chapter 7, 8 Homework Assignment #4
Week 9,10 Chapter 9, 10, 11 Homework Assignment #5
Week 11,12 Chapter 12, 13, 14, 15, 16 Homework Assignment #6,7
Week 13, 14 Chapter 17, 18 Program Assignment #8,9
Week 15 Chapter 19, 20 Homework Assignment #10,11

X. Course Requirements

Student must (1) possess a copy of the textbook, (2) attend all classes, The Shaw University Attendance Policy will be enforced in accordance with the 1998-2002 catalogue, (3) Complete all programming assignments on time, (4) take all tests and Final Examination as scheduled. Since the lowest test score will be dropped, no make-up test
will be given. Final Examination will be comprehensive, and the final grade will not be dropped.

XI. USE OF THE SHAW UNIVERSITY LIBRARY

It is imperative that you familiarize yourself with the instructional materials that are available to you in the James E. Cheek library on campus. Not only are there numerous books, periodicals, magazine articles, encyclopedias, and newspapers on hand for your perusal in our Library. There are course textbooks and related instructional materials that your professors have placed On Reserve for you as well. In addition, there you will have access to state-of-the-art computers and laptops, which help to place the world virtually at your fingertips. Don’t wait another day. Become a regular patron at the James E. Cheek Library here on the campus of Shaw University. You’ll become a far better scholar, a more capable and well-rounded intellectual, and a sharper and more competitive individual. It’s your library. Use it!