



A: Division: Instruction Date: October 1999
 B: Department/ Commerce & Business Admin. New Course Revision
 Program Area: Computer Information Systems
 If Revision, Section(s) Section H
 Revised:
 Date Last Revised: May 1997

C: CISY 540 D: CLIENT/SERVER SYSTEMS E: 3

Subject & Course No. Descriptive Title Semester Credits

F: Calendar Description:
 This course will provide the students with practical knowledge of developing and implementing client/server systems. Topics will include migration management, selecting application programs, host-based processing, client-based processing, cooperative processing, client hardware and software, server hardware and software, networking, and future trends. Students will be using the most up-to-date client/server software and hardware for systems development and implementation.

G: Allocation of Contact Hours to Types of Instruction/Learning Settings
 Primary Methods of Instructional Delivery and/or Learning Settings:
 Lectures and Seminars
 Number of Contact Hours: (per week / semester for each descriptor)
 Lecture: 3 Hrs.
 Seminar: 1 Hr.
 Total: 4 Hrs.
 Number of Weeks per Semester:
 15 Weeks X 4 Hrs per week = 60 Hrs.

H: Course Prerequisites:
 CISY 300 and CISY 210

I. Course Corequisites:
 nil

J. Course for which this Course is a Prerequisite:
 nil

K. Maximum Class Size:
 35

L: PLEASE INDICATE:
 Non-Credit
 College Credit Non-Transfer
 College Credit Transfer: Requested Granted
 SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)

M: Course Objectives/Learning Outcomes:

At the end of the course, the student will be able to:

1. explain the difference between traditional systems and client/server systems;
2. describe the client/server environment and explain its significance in the computer industry today;
3. explain in detail the various client/server models, and the advantages and disadvantages of each model;
4. compare current client/server software for PCs, midranges, and mainframes;
5. explain the use of different client/server system development tools;
6. demonstrate the use of a cross-platform Rapid Application development tool for building client/server applications that access data found in a DBMS;
7. demonstrate the use of client/server software in a PC client/PC server environment;
8. demonstrate the use of client/server software in a PC client/midrange server environment;
9. describe the various communication protocols, development tools, graphical user interface design, and event-driven programming in a client/server environment.

N: Course Content

1. Introduction to Client/Server Computing.
2. Advantages and Disadvantages of Client/Server Computing.
3. Client/Server Models.
4. Client/Server Applications.
5. Current PC Client/Server Software.
6. The basics of GUI (graphical user interfaces development in a Windows environment and the associated facilities such as OLE (object linking and embedding) and DDE (dynamic data exchange).
7. The basics of event driven programming environment and development of programs using object-oriented techniques.
8. Client/Server Design:
9. Client/Server Architectures.
10. Current Midrange Client/Server Software Products.
11. Current Mainframe Client/Server Software Products.
12. Implementing Client/Server Computing.
13. Managing a Client/Server Environment.

O: Methods of Instruction

The concepts of Client/Server development tools will be discussed in class and the students will complete hands-on projects in the computer lab.

P: Textbooks and Materials to be Purchased by Students:

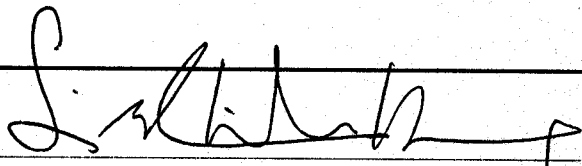
Instructor Determined.

Q: Means of Assessment

Assignments (3-4)	20%-30%
Midterm Examination	25%-30%
Final Examination	25%-30%
Participation	0%-10%
Presentations (0-2)	0% - 5%
Quizzes (1-2)	<u>0% - 10%</u>
	<u>100%</u>

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

No.



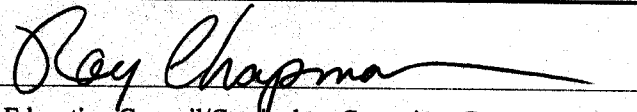
 Course Designer(s)
 Simon Li

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Simon Li

Dean/Director

Jim Sator



 Education Council/Curriculum Committee Representative

Education Council/Curriculum Committee Representative

Trish Angus

Registrar

Trish Angus

