

University of Detroit Mercy
College of Engineering & Science
Department of Mathematics and Computer Science
CSC – 467: Distributed Computation
Fall 2003-2004
SECTION FD

COURSE DESCRIPTION: This course will introduce students to the principles of distributed computing and focuses on upper layers of the architecture for net-centric computing specifically on computing abstractions and paradigms.

PREREQUISITES: CSC 172 AND CSC 443

REQUIRED TEXT: Distributed Computing Principles and Applications

By: M.L. Liu

Publisher: Pearson Addison-Wesley

INSTRUCTOR: Emad Eddin Abdellatif

OFFICE HOURS: Monday: 4:30 – 5:30 PM. Or email. Shamroukh62@hotmail.com

LECTURE: 5:30 – 8:00 PM M.

COURSE OBJECTIVES: To introduce and develop in the computer science students the ability to design and implement the distributed objects and systems. The student will be able to write simple distributed applications using one of the distributed languages (JAVA, C++, and C#). Students completing this course will have the ability to utilize distributed computing concepts as it applies to the Internet applications, WWW, and Client-Server applications.

COURSE OUTCOMES: After taking this course, students will be able to:

- Define different forms of computing
- Understand some software engineering concepts and the object-oriented programming.
- Write and implement simple client-server applications.
- Write and run a simple CORBA programs.
- Design and implement the Distributed objects.

TOPICS:

- Distributed Computing, an Introduction.
- Interposes communications
- Distributed computing paradigm
- The socket API
- The client-server paradigm
- Group communication
- Distributed objects
- Internet applications
- The common object request broker architecture
- Advanced distributed computing paradigms

GRADING:	Homework and projects	30%
	2 midterm exams	30%
	Final exam	40%

EXAM SCHEDULE
(TENTATIVE):

Exam I	Monday, October 6 th
Exam II	Monday, November 3 rd
Final	Monday, December 8 th

GRADING SCALE:	A 95-100, A- 90-94, B+ 85-89, B 80-84, B- 75-79, C+ 70-74, C 65-69, C- 60-64, D+ 55-59, D 50-54
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Attendance and Participation: Students are expected to attend class on a regular basis and participate in the discussions. They are responsible for all the material presented therein. Formal attendance records will be maintained; and attendance is highly correlated with performance on the assignment homework's and the exams.

The instructor will attempt to make reasonable accommodations for students who miss a class due to illness, death in the family, or other legitimate reasons. However students who are forced to miss several classes will have difficulty completing the course in a satisfactory manner.

IMPORTANT DATES:

November 17	Last day to withdraw from class
November 27-28	Thanksgiving break
Dec. 8–13	Final Exam week

ACADEMIC INTEGRITY: Everything submitted for grading is expected to be a student's own work. Anything suspected otherwise will be dealt with according to the College policy – see the Engineering and Science Student Handbook.