



# Mid-term Exam

CSE410/586

Distributed Systems

# Topics

## ◆ Distributed Systems(DS): Chapter 1- 6

- Characterization of and challenges in DS: Ch.1
- System models: Ch.2
- Networking and internetworking: Ch.3
- Interprocess communication: Ch.4 (IP multicast, group communication, etc.)
- Distributed Object and remote Invocations (RMI and CORBA): Ch.5
- Exercises at the end of the chapters

# Topics (contd.)

## ◆ CORBA Ch.2

- Object reference model
- Object management architecture
  - ◆ Horizontal services, vertical services and facilities
  - ◆ Object services, common facilities, domain interfaces
  - ◆ Application interfaces

## ◆ CORBA Ch.3

- ORB Core
- Interface Definition Language (IDL)
- CORBA Binding
- CORBA programming (only static invocation)
  - ◆ See the stockQuote example

# Topics (contd.)

## ◆ CORBA Naming Service (Ch.7)

- Starting at 7.2
- Naming graph
- Name resolution
- Binding and unbinding
- Creating and deleting naming context
- Listing the context of a naming context

# Project 1

- ◆ Naming service
- ◆ RMI
- ◆ Exception handling
- ◆ Discovery
- ◆ Marshalling
- ◆ Event handling

# Exam Format

- ◆ Open book, open notes
- ◆ No definition
- ◆ Be precise and use code samples where ever needed.
- ◆ Do not copy verbatim the text book. You will get a 0 for the answer if you do.