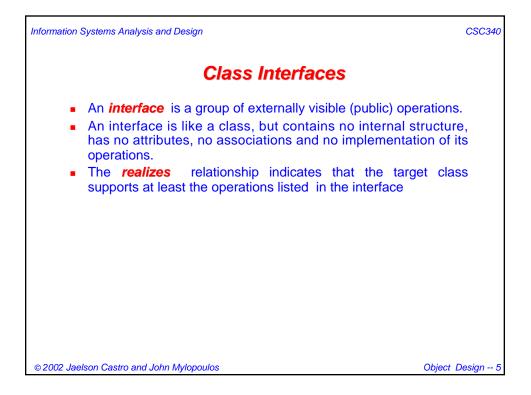
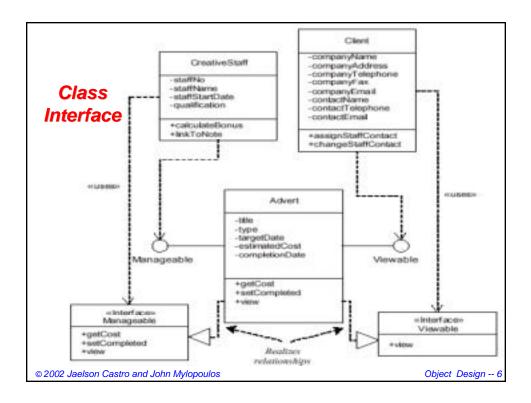
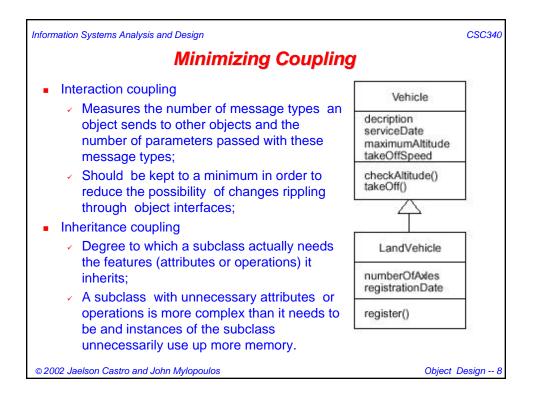


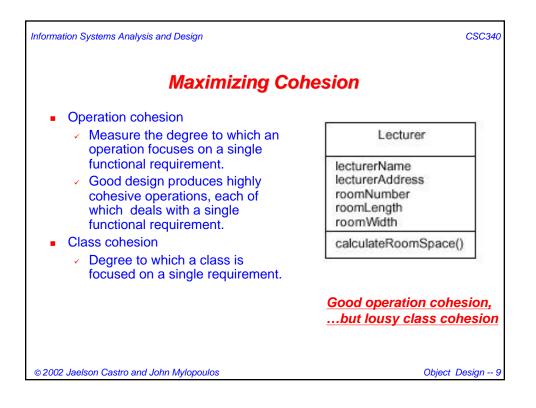
An Example	
BankAccount	
- <u>nextAccountNumber:Integer</u> -accountNumber:Integer -accountName:String {not null} -balance:Money = 0 -overdraftLimit:Money	
+open(accountName:String):Boolean +close():Boolean +credit(amount:Money):Boolean +debit(amount:Money):Boolean +viewBalance():Money #getBalance():Money -setBalance():Money -setBalance(newBalance:Money) #getAccountName():String #setAccountName(newName:String)	

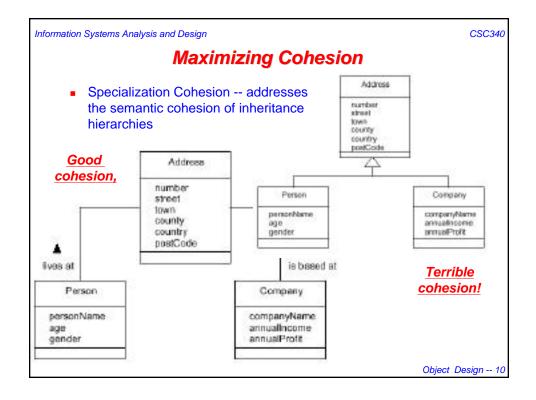


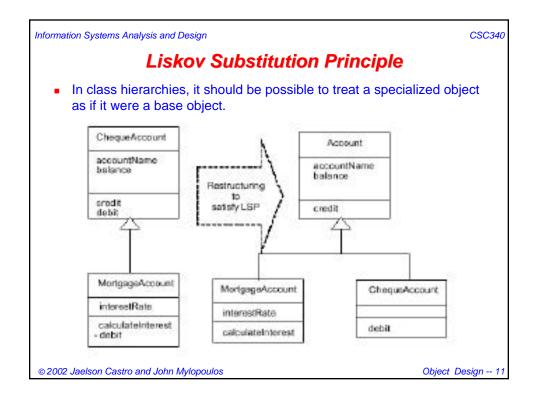


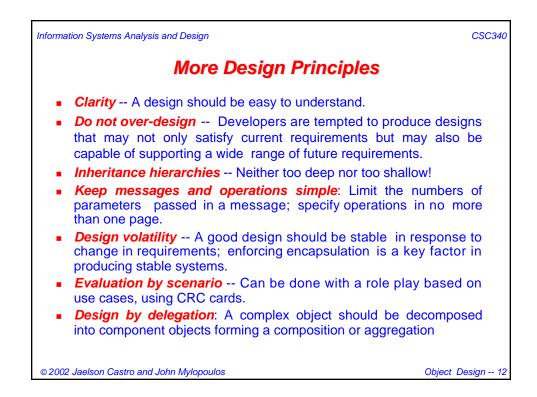
CSC340 Information Systems Analysis and Design Criteria for Good Design: **Cohesion and Coupling Coupling** measures the degree of interconnectedness between design components. The degree of coupling is reflected by the number of links an object has, and by the degree of interaction the object has with other objects. Low coupling is preferrable in a design for many good reasons, . e.g., easier to understand and modify the design. *Cohesion*, on the other hand, measures the degree to which an element (subsystem, module, or class) contributes to a single purpose. Of course, we want a highly cohesive design. . © 2002 Jaelson Castro and John Mylopoulos Object Design -- 7

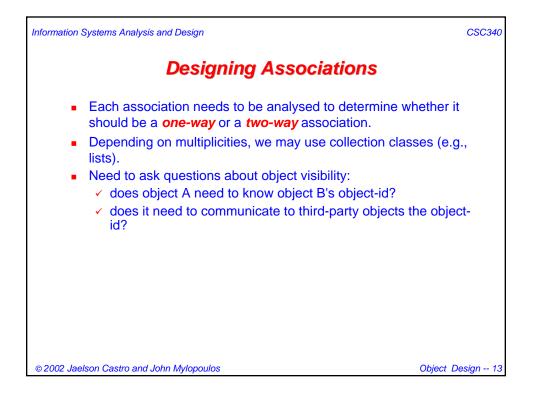


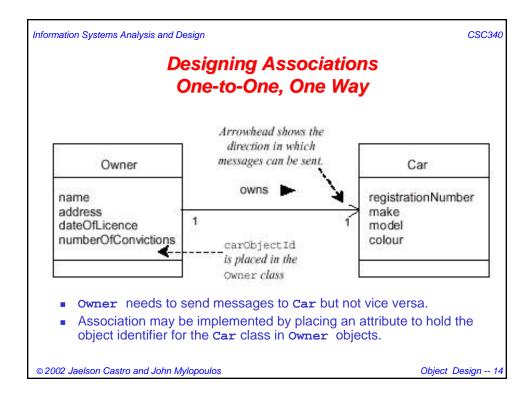


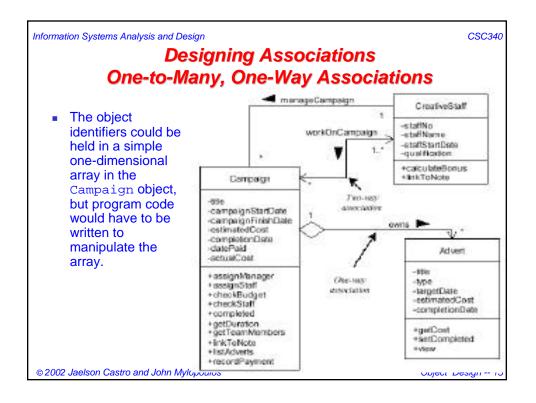


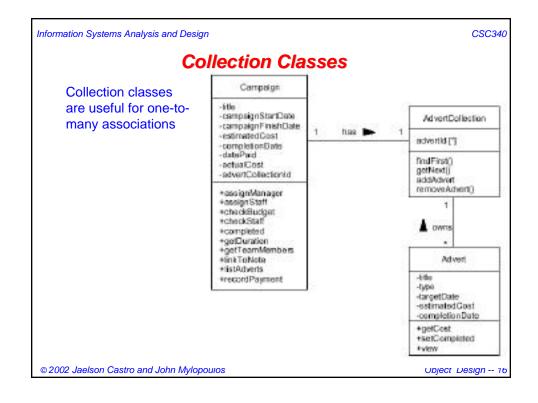


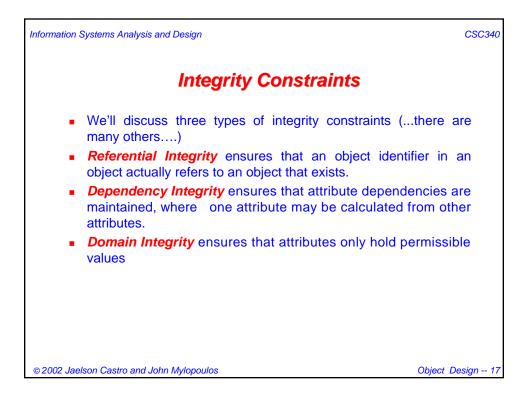


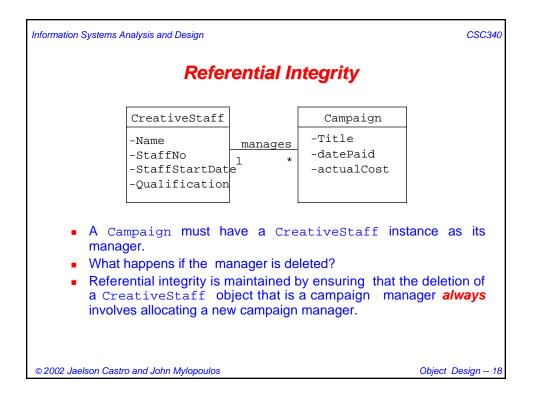


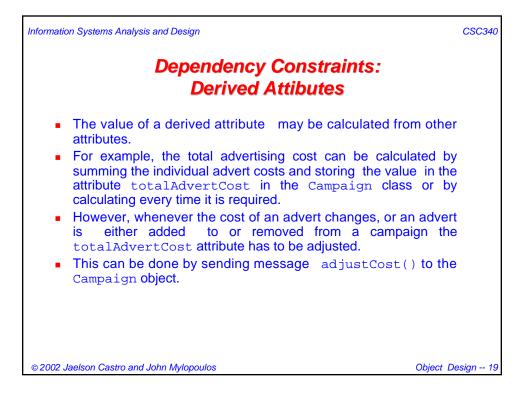


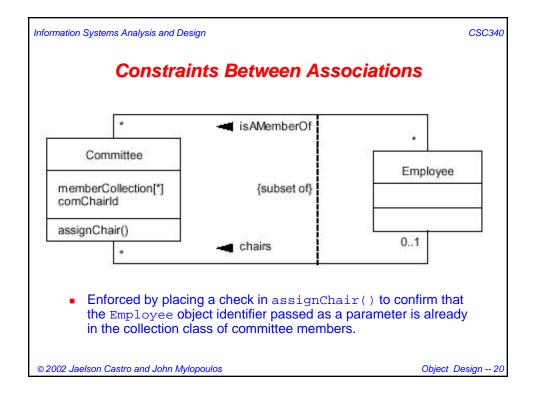












CSC340 Information Systems Analysis and Design **Designing Operations** • Determine the best algorithm for the required function. • Factors constraining algorithm design: The cost of implementation; Performance constraints; Requirements for accuracy; The capabilities of the chosen platform. Factors to be considered when choosing among alternative • algorithm designs The computational complexity of candidate algorithms; Ease of implementation and understandability; Flexibility; 1 Fine-tuning the object model. © 2002 Jaelson Castro and John Mylopoulos Object Design -- 21