SENG 422/522-Summer 205: Reading List

Based on "Quality-Driven Software Architectures- How to design Dependable Systems" by Issa Traore and Jens H. Jahnke

The following table lists chapters of the textbook corresponding to the different materiel covered in the lecture notes. Only the chapters listed here will be covered in the course. The section on component-based development (chap 12 in the Lecture Notes) has not yet been included in the book.

Lecture Notes	Textbook
Chapter 1: Introduction to Software Architecture	Chap 1: The role of Architecture in Software Engineering
Chapter 2: Use Case View Chapter 3: Logical View Chapter 5: Implementation, Process, and Deployment Views	Chap 2: Requirements Chap 3: Architecture Description Language
Chapter 4: Design Planning	Chap 10: Risk Management
Chapter 6: Using Metrics to Manage Software Risks	Chap 7: Software Metrics
Chapter 7: Patterns	Chap 4: Architecture Patterns
Chapter 8: Introduction to CORBA Chapter 9: CORBA-IDL Chapter 10: Designing CORBA Systems Chapter 11: Implementing CORBA Applications Chapter 13: CORBA Component Model (CCM) Chapter 14: Locating CORBA Objects Chapter 15: Managing CORBA Objects Lifecycle	Chap 19: Distributed Architecture Section on CORBA
Chapter 12: Introduction to Software Component-based Development	

Caution: Please note that the proposed textbook is a draft book, which currently being written. Therefore several of the chapters have not been properly formatted or proof read. But the information provided is significant because it is the first compilation of core knowledge underlying software architecture that could only be found piecemeal in other software engineering publications.