

Class	Monday	Topic	Slides	Bibliography	Project
1	15/09/14	Introduction, Course Motivation and Dynamics. Introduction to XML.	1,2a	[Harold01]	Project #1: XML and JMS
2	22/09/14	Agnostic Data Representation and Processing in XML and XSLT	2b	[Armstrong+05] Ch. 2, 4, 5, 6; [Harold01]	
3	29/09/14	Message Oriented Middleware (MOM)	3	[Hohpe05]; [Hohpe03] Ch. 4, 6, 9, 10	
4	06/10/14	Enterprise Java Beans & Java Persistence API	4		
5	13/10/14	Fundamental Problems in Large-Scale Application Integration ("Widgets & Gadgets" Case Study)	5	[Hohpe03] Ch. 1	
6	20/10/14	Service Oriented Architecture (SOA) and Enterprise Service Bus (ESB)	6	[Erl09] Ch. 13, 14, 16	Project #2: J2EE
7	27/10/14	2 nd Generation Web Services (Messaging, Security, Reliability, Transactions, Processes, Metadata)	7	[Erl09] Ch. 6, 7, 17; [Gailey04]	
8	03/11/14	Distributed Transactions, Two-Phase Commit, Business Activities, and relaxing Isolation.	8	[Coulouris+05] Ch. 14; [Burke+05] Ch. 16	
9	10/11/14	Mule Enterprise Service Bus	9		
10	17/11/14	Integration with Legacy Systems: Challenges and Approaches;	10	[Hohpe03] Ch. 2; [Linthicum99] Ch. 1-5; [Erl04] Ch. 8, 9	Project #3: MuleESB
11	24/11/14	A primer on NetWeaver	11		
12	01/12/14	Integration with the Cloud	12		
13	15/12/14	"Why Systems Fail and What Can We Do About it?" – Basic Techniques in Reliability and Fault-Tolerance	13	[Marcus+03]; [RELIABILITY]; [AVAILABILITY]	