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Fall 2010

CEG 355-01: Introduction to the Design of Information Technology Systems

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CEG355 Introduction to the Design of Information Technology Systems

Fall Quarter 2010

Wright State University

Course Description

Introduction to the design of information systems comprising modern technologies such as SQL database programming, networks, and distributed computing with CORBA, electronic and hypertext (HTML) documents, and multimedia.

This course is concerned with the techniques of designing and implementing distributed business software. Emphasis is on developing graphical user interfaces (GUIs) using Java Swing classes, storing and accessing data in a relational database using SQL, and implementing a distributed system using CORBA technology. Especially in light of Java and CORBA, there is a focus on object-oriented programming. The overall objective is to make the student aware of the technology available to implement a distributed business application built over a database system and to develop in the student the ability to use such technologies. Hands-on experience is emphasized through the use of homework and a class project.

Professor

Dr. Thomas C. Hartrum

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Class Hours: M W 12:15 P.M. – 1:30 P.M., Russ Room 146.

Text

Horstmann and Cornell, *Core Java 2, Volume II, 8th Ed.*, Prentice Hall, 2008.

Prerequisites

CS241

Grading

Grading will be as follows:

Homework, programming exercises & Projects	50
Midterm Exam	25
Final Exam	25

Course grades will be based on the total score as follows: A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: below 60.

Grades may be further curved if appropriate.

You may work with others on homework assignments, but you must turn in your own individual work. Homework that has obviously been copied will result in a grade of zero for both parties and will be reported to the Office of Judicial Affairs, as will any other form of cheating. Ten percent will be deducted for unexcused late homework up to 1 week late. (continued)

Tentative Schedule Fall 2010

<u>Week</u>	<u>Topic</u>	<u>Text</u> (chapter:pages)	<u>Slides</u>	<u>Code</u>
1	M HOLIDAY W Introduction	Introduction	Intro355	
2	M Java W Java Swing, JList	Review Review, 6:352-358	BasicJava BasicSwing	BasicCode SwingCode, StudentList, TicTacToe
3	M Java Swing W MVC, Data Models	Review, Architecture 6:358-369	Swing, Arch DataModel	Calculator1, Comparers Rectangle, StudentList
4	M JTable W Databases, SQL	6:358-404 4:222-227, Handouts	JTable RelationalDB, JDBC	StudentTable
5	M JDBC, Review W Midterm	4: 218-221, 227-273 All through SQL	JDBC	DemoMySQL
6	M JDBC, Access W CORBA	4: 218-221, 227-273 10:841-844, notes	JDBC, Access CORBA1	
7	M CORBA W RMI	10:841-844, notes 10:841-870	CORBA2 RMI	Corba1, Corba2, Corba3 RMI1
8	M XML W SOA, Web Services	2:87-104, 112-114, 129-137, 146-167 10:871-882	XML SOA	XMLcode1, XMLcode2
9	M SOA, Web Services W JTree	10:871-882 6:405-441	SOA JTree	SimpleTree, SchoolTree
10	M JTree W Catch up, Review	6:405-441 All	JTree	DOMTreeTest
-	W (11/17) 1:00 PM - 3:00 PM Final Exam			

NOTE: There will be *no* early final exam – plan your travel accordingly. In case of a legitimate conflict, a makeup final can be arranged.