ISM 6236 - Business Objects I Syllabus Spring 2017

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OFFICE HOURS	:	Tue: 9:00-11:00 am
		Wed: 9:30-11:30 am

PREREQUISITES

ACADEMIC

Students must have completed ISM 6223 (Business Telecomm Strategy & Applications II) and ISM 6215 (Business Database Systems I) before taking this course. For hands-on work, students must have a reasonable working knowledge of Java and C#. Hence ISM6257 and ISM6258 are prerequisites (co-taking ISM6258 is allowed in special cases).

COMPUTING

Students must have access to a laptop that runs **Windows 7 Professional or newer**. The laptop should have enough capacity to install and run Sun Application Server, Visual Studio.NET, SQL Server and Netbeans.

RECOMMENDED TEXT

There is no required or recommended text for this course as the technology moves faster than books in print. Lecture notes will suffice for all discussions. You are free to use tutorials, textbooks as you see fit.

REQUIRED SOFTWARE

For Java related topics we will use the Netbeans development environment. For C# related topics (Microsoft technologies) we will use Visual Studio.NET. Use the links below to download the Java related software. Use the MSDNAA web site to download the remaining MS software (http://e5.onthehub.com/WebStore/Welcome.aspx?ws=5e7151bd-739b-e011-969d-0030487d8897&vsro=8).

- Windows 7/8/10 Professional/Enterprise
- Winzip (or a similar archiving utility)
- MS SQL Server at MSDNAA
- J2SE 8 JDK at http://www.oracle.com/technetwork/java/javase/downloads/index.html
- Sun Appserver & Netbeans bundle
    - http://netbeans.org/downloads/index.html - choose the last column: All)
- Visual Studio .NET at MSDNAA

COURSE OBJECTIVES

This course is designed to provide an understanding of the object based technologies that enable distributed enterprise computing. Several technologies merged to form the computing architectures we see today. Firstly, object oriented development (OOAD, OOP) became the standard. Secondly, the computing model shifted to multi-tiered client/server (C/S) models and the middleware supporting C/S systems matured. Thirdly, the C/S model enabled companies to develop and sell software as services supporting business processes they are best prepared to supply.

We will review some of the underlying (and early) technology that enables today's computing. Specifically we will focus on:

Java Based technologies

- Sockets
- Remote Method Invocation (RMI)/Enterprise Java Beans (EJB)
- Servlets
- Java Web Services (JWS)

Technologies developed by Microsoft

- ASP.NET
- Windows Communication Foundation (WCF)
    - Service oriented architectures
    - Managed Services

During the course you will complete projects using these technologies.

ASSURANCE OF LEARNING

Each program at the Warrington College of Business Administration has developed goals and objectives that express the most valued skills and knowledge that students should be able to demonstrate upon completion of the total learning experiences in that program. The following goals are mapped to **ISM6236**.

- Think critically and analytically in formulating business solutions.

COURSE EVALUATION

Assignments-- Assignments are designed to reinforce the lectures. They will require that you read the course text, help files and additional resources as well as the material covered in class. Some assignments are team assignments. Please form a team of two for the purpose of these assignments.

Exams/Quizzes -- There will be several quizzes and a final exam.

Grading-- If you think I have graded your work incorrectly you have a right to appeal. **Please turn in a written appeal** (preferably by email) that specifies the question number and a brief explanation of why my grading is incorrect. I will not accept any appeal without sufficient proof. Use your textbook, sample programs, lecture notes, etc. as a reference when writing your appeal. **I give partial credit; however, if an answer is incomplete or is partially correct do not expect more than half the points no matter how close you believe it is to the correct answer.**

You are expected to calculate your own grade based on the following weights and scale (A at 93, A- at 89, B+ at 85, B at 81, B- at 77, C+ at 73, C at 70, C- at 67, D+ at 63, D at 60, D- 57, E below 57).

Quizzes	30%
Final Exam	30%
Assignments	40% (Variable weight per assignment)

ACADEMIC DISHONESTY

For any academic class activity, students must follow the University of Florida Student Honor Code (http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php). **Any violation of the honor code will automatically result in a grade of E (Fail) for this course and further sanctions that may include a suspension or expulsion from the University.** All incidents will be reported to Student Conduct and Conflict Resolution at the University of Florida.

CLASS POLICIES AND PARTICIPATION

By enrolling in this course **you agree to abide by the following policies.**

ATTENDANCE

Attendance is not compulsory but you are responsible for all material covered in class. In class, I expect full participation as there are many concepts that can be learned during the course of a discussion. You are expected to complete assigned readings before class as I ask questions and expect you to answer them. **I reserve the right to give pop quizzes in addition to the scheduled quizzes to encourage a high level of preparedness**.

MAKE-UP WORK

You **cannot make-up for missed exams or quizzes** unless you have proof that you had a **legal or medical emergency** (regular medical appointments do not constitute an emergency nor scheduled trips) or had to be on a job interview (I require a letter from the potential employer and proof that you actually went to the interview). You are required to let me know of these conflicts in advance when possible.

Assignments should be submitted on time. **I do not accept late submissions (no exceptions, including interviews).**

EXTRA CREDIT

There will be **no extra credit work available** at any time for any part of the coursework.

LAPTOPS

You can bring your laptops to class since we will have short tutorials from time to time. However, you need to keep them turned off all other times.

CELL/SMART PHONES IN THE CLASSROOM

Absolutely no cell/smart phones can be used in the classroom during lectures and exams.

STUDENTS WITH DISABILITIES

Students requesting special classroom accommodations must first register with the Dean of Students Office and obtain the necessary documentation to request appropriate in-class accommodations.

ISM6236 - Tentative Schedule

Week	Topic	Readings/Quizzes/Assignments Due
1.1	Syllabus Installation Instructions Introduction	Assignment Submission Instructions
	JDBC	
1.2	JDBC -- DB Library, DB Client(Console), DB Client(GUI)	
	Sockets -- Hello Server/Client -- Server/ Client, GUI Client	
2.1	Sockets (cont)	
	Enterprise Beans -- Hello Bean, Client, remoteInterfaceLib -- Session Bean, Client, reomteinterfaceLib	
2.2	Enterprise Beans	Quiz 1
3.1	Overview of HTML/HTTP Servlets -- HelloServlet -- Servlet, JavaClient	
3.2	Java Web Services (JWS) --A java client for a third party service -- Hello Service, Client -- Web Service, Java client , GUI Client, Web client	Quiz 2
4.1	JWS	
4.2	ADO.NET -- DB Library/Client	Quiz 3
5.1	Review of .NET & Attributes -- Type System/ Attributes	
5.2	WCF -- WCF Hello Service/Client -- WCF Service/Client	Quiz 4
6.1	ASP.NET -- Examples	
6.2	COM+ (Serviced Components/Transactions) -- Distributed Transactions	Quiz 5
7.1	Recent Developments/Technologies	
7.2	Review	
8	Exam – April 25th 11:45 am-1:40 pm, STZ 101 (see Warrington Exam Schedule)	