

MSIS 5133 Advanced Information Technologies for E-Commerce

Oklahoma State University

Professor: Dr. Rathindra Sarathy
Fall 2007 Tentative Course Syllabus

Course Schedule

Office: 408 Business	Phone: (405) 744-8646	e-mail: rathin.sarathy@okstate.edu	Office Hours: Stillwater - Thurs. 1:30-3:00 p.m. appointment
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Prerequisites: Consent of professor or MS in MIS/AIS Director. In general, it will be assumed that students enrolling in this course will have taken at least one approved course in each of the following *prior* to enrolling in the course: Database Design, Information Systems Analysis & Design, Visual Basic and/or Java programming. Knowledge of object-oriented concepts is a definite advantage.

Course Philosophy & Objectives: In the last few years there has been a strong convergence of technologies that underlie e-commerce systems with those that form the basis of enterprise information systems in general. The number of technologies underlying e-commerce applications, as well as their complexity, is growing rapidly. In this course, we will explore some of these key technologies and attempt to apply our learning to build e-commerce-related applications.

Most real-world e-commerce applications are surprisingly complex, from a system builder or administrators perspective. Considerations such as scalability, reliability, availability, security, concurrent transaction processing, multiplicity of platforms, etc. take on added importance, compared to conventional information systems (even networked, non-internet systems). Compounding this complexity, there is a significant tussle over development platforms (DOT.NET vs J2EE, Microsoft Web Services vs. Sun One, ASP vs JSP, Netscape vs Explorer, VBScript vs JavaScript, Java vs. VB.NET/C#, C++, COM vs JavaBeans, Windows vs. Linux, Apache vs. IIS, JDBC vs ODBC, and many others).

Acquiring meaningful expertise in building e-commerce systems is not a simple matter. Fortunately, some common themes have emerged. One of these relates to emerging commonality and recognition of typical ways in which e-commerce applications may support a business. Secondly, some common business models, and information system components and architectures that can support these models, are now better understood and documented. Third, specific types of technologies such as cookies, catalogs, search engines, banner ads, shopping carts, payment processing mechanisms, web mining, among others have now become basic elements in many e-commerce applications. Fourth, object-orientation has been significantly better embraced in the e-commerce world, which tends to make system development easier. Objects are common to many e-commerce features. Finally, XML has emerged as a major component of all e-commerce systems development, playing an important role as an integrator. We shall use these common themes as our guide in this course.

This is not a programming course, though programming will be a significant part of the course. For the most part, students will have to acquire the requisite programming skills on their own. Similarly, students are expected to have database and system building skills prior to enrolling in this course. The value of this course to the student, as well as the probability of success, is directly related to student initiative and participation. My role will be to provide essential concepts, lead you to sources of information, provide assistance with development platform related issues and provide assistance with infrastructure requirements. I expect this course to be challenging, but enjoyable.

This is primarily a (software) technology-oriented (as opposed to a "business-oriented") course. Therefore, your ability and willingness to work with new technologies is important. [If you are considering taking this course as an elective, click here to see course warning!](#)

The following technologies will be covered in the course:

- **Client-side technologies:** HTML and its Document Object Model (DOM), Stylesheets, DHTML, Javascript, Use of Client-side objects such as Applets and ActiveX objects.
- **XML-Based technologies:** XML, XML Schemas and validation, Role of Namespaces, XSL and XSLT Language, Embedding XML in HTML, Embedding Javascript in XSL, manipulating the XML DOM as well as SAX using programming languages
- **Server-side Technologies:** DOTNET (mainly) ASP.NET 2.0, ADO.NET, XML and ADO.NET, building components in dotnet, building and consuming Web Services
- **Database Technologies for the Internet:** ADO.NET and SQL Server 2005
- **Server-side scripting technologies:** (time permitting) Understand and use the older ASP technology, PHP

All the above concepts and technologies will be brought together to develop an internet-based, 3-tier client-server, e-commerce application as the **term project**.

Thus, *you will have to learn several languages by yourself* including HTML, Javascript, XML, XSLT, ASP.NET (VB.NET or C#) and possibly ASP and/or PHP. In addition, prior knowledge in designing databases and comfort with object-orientation is critical. We will be connecting to a SQL Server database on the server. We will be using VS.NET 2005 as our development platform.

Course Materials:

Book: [Introduction to ASP 2005](#) by Kate Kalata - ISBN 13: 978-1-4188-3765-5 2008 (Course Technology - Web Warrior Series)

Our coverage will be in four or five major areas (ASP.NET (VB.NET/C#) , XML, Javascript, Java-based internet technologies and older

technologies such as ASP) and it is difficult to find a single book that incorporates all these concepts. Much of the material, in fact, can be obtained (though with considerable extra effort in some cases) from the web. I will identify some of the major internet sites in the [course website](#). I have a list of books on the [course website](#) that may satisfy *some* of the needs in a concise fashion. There are many other books available on specific technologies or platforms. Please check with me if you want to evaluate any of these for purchase.

Additional Materials: Additional readings available from the web will be indicated on a Lecture-by-Lecture basis.

Course Evaluation (Tentative):

Exams	Assignments	Project
50-60%	10% - 20%	20% 30 %

Letter Grade:	A	B	C	D	F
Percentage:	>=90%	>= 80% and <90%	>= 70% and <80%	>= 60% and <70%	<60%

Examinations: Exams will include material from the lectures as well as assigned readings. I will attempt to be as precise as possible in identifying the material that you will be tested upon, prior to each exam.

Assignments and projects: Details of assignments will be presented during the course. Other assignments and/or quizzes may be assigned at the professors discretion.

Teams, Peer review and grading: Considering the many different perspectives that can be brought to bear on electronic commerce, as well its vast scope, learning is definitely enhanced through team interaction. Therefore, team assignments, presentations and projects are an integral part of this course. Peer review and peer grading by team members will be a component of both assignment and project grades. See the [peer review](#) form.

Web Page: Each member of the class is expected to develop and maintain a web page on the world wide web. This should be set up as early as possible, and all assignments should be linked to the students personal web page. Team projects should be linked to every members web page. Discussion assignments should also be posted on the teams web page, prior to actual discussion taking place in class.

Attendance: Perfect attendance, while not mandatory, is a strong indicator of student commitment to the course and is also expected to influence performance in the course. Most of the course material will be available on the course website, and it is the students responsibility to prepare on their own for material covered during missed classes. Students will be held responsible for all work required in the course despite valid reasons for absence from class.

Drop Policy: Course drop will be in strict accordance with University policy.

Late Assignments: Assignments should be done professionally in accordance with the instructions provided, and submitted on or before the due date. Assignments submitted after the due date will incur a penalty of 20% of that assignments grade, for each academic day that it is late. Assignments submitted after one week will receive no credit.

Academic Honesty: See Syllabus attachment below. See this interesting link on plagiarism: www.plagiarism.org



**OKLAHOMA STATE UNIVERSITY
SYLLABUS ATTACHMENT
FALL 2007**

<http://osu.okstate.edu/acadaffr/raa/syllabusattachment-Fall.htm>

WE ARE VERY CONCERNED ABOUT YOUR SUCCESS AS A STUDENT AT OSU. THIS INFORMATION IS PROVIDED TO ANSWER QUESTIONS MOST OFTEN ASKED BY STUDENTS.

IMPORTANT DATES

Last day to add a class (without instructor permission)	8/27/07
Last day to drop a course with no grade and no fees charged for courses	8/27/07
Last day to withdraw completely from the University and receive a 100% refund	8/27/07
Last day to add a class (with instructor permission)	8/31/07
Last day to file diploma application	8/31/07
Last day to drop a course with an automatic W and receive a 50% refund	8/31/07
Last day to withdraw completely from the University and receive a 50% refund	8/31/07
Last day to post 6 week grades for 1000 & 2000 level courses	10/02/07
Last day to drop a class with an automatic W	11/9/07
Last day to withdraw completely from the University with an automatic "W"	11/9/07
Last day to withdraw completely from all OSU classes with an assigned W or F	11/30/07
Pre-Finals week	12/3 12/7/07
Final examinations	12/10 12/14/07

FALL SEMESTER HOLIDAYS

Labor Day*	9/3/07
Fall Break (Monday classes will meet on Wednesday, 10/10/07)	10/8 - 10/9/07
Oklahoma Statehood Day*	11/16/07
Thanksgiving Break*	11/22 - 11/25/07

*University closed

DROPPING A COURSE AND WITHDRAWING FROM THE UNIVERSITY Students often confuse these terms
<http://osu.okstate.edu/acadaffr/DropAdd.htm>.

Dropping a Course (or courses) may occur during the first twelve weeks of the semester. This means, however, that you are still enrolled in at least one other OSU course. (Remedial courses cannot be dropped without written permission of the advisor.) *After the twelfth week (November*

9, 2007), a course may be dropped by petition but **only** when verifiable extenuating circumstances can be demonstrated. Verifiable extenuating circumstances must be reasons beyond your control, such as illness or accidental injury. **Poor performance in class is not an extenuating circumstance.** You must obtain a petition to drop a course after the deadline from your advisor and get the signature of your advisor and dean with a grade of W or F assigned by the instructor. The Late Drop Panel must then approve the petition.

Withdrawing from the university means that you are dropping **all** of your courses and **are no longer enrolled for the current semester**. This may occur until the Friday before pre-finals week (November 30, 2007). The withdrawal process is initiated in your deans office. **CHECK THE IMPORTANT DATES SECTION FOR THE DROP AND WITHDRAWAL DEADLINES FOR THIS SEMESTER.**

ACADEMIC INTEGRITY POLICY



Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, academicintegrity.okstate.edu.

CLASS ATTENDANCE IS IMPORTANT

Attendance usually has a high correlation with how well you perform in a course. Talk with your instructor about any absences. Many instructors consider attendance so essential that your grade may be affected by your absence. **SOME DEPARTMENTS AND PROFESSORS HAVE MANDATORY ATTENDANCE POLICIES.** Check your course syllabus or ask your instructor for this information. If you are required to participate in official university-sponsored activities or military training you should receive an excused absence unless the written course attendance policy indicates otherwise.

PRE-FINALS WEEK POLICY

Final examinations are scheduled at the end of each semester and are preceded by pre-finals week, which begins seven days prior to the first day of finals. During pre-finals week, all normal class activities will continue; however, no assignment, test, or examination accounting for more than 5% of the course grade may be given; and no activity or field trip may be scheduled that conflicts with another class. This excludes makeup and laboratory examinations, out-of-class assignments (or projects) made prior to pre-finals week, and independent study courses. No student or campus organization may hold meetings, banquets, receptions, or may sponsor or participate in any activity, program, or related function that requires student participation. Contact the Office of Academic Affairs, 405-744-5627, 101 Whitehurst.

FINAL EXAM OVERLOAD POLICY

In the event that you have three or more final exams scheduled for a single day, you are entitled to arrange with the faculty member instructing the highest numbered course (4 digit course number) or two highest, if you have four finals on one day, to re-schedule that examination(s) at a time of mutual convenience during final exam week. You may not reschedule common final exams unless you have common exams scheduled at the same time. You should submit this request in writing, with a copy of your class schedule, at least two weeks prior to the beginning of final exam week. The faculty member has one week prior to the beginning of final exam week to arrange a mutually convenient time for administration of the final exam, after which you take the request to the Office of Academic Affairs, 101 Whitehurst.

INFORMATION TECHNOLOGY

Student Email - OSU uses your OKSTATE.EDU email address for electronic correspondence. If you do not use the OSU email system you must redirect your okstate.edu email using the Orange-Key System (www.okey.okstate.edu). Failure to maintain an accurate email address may result in missed or lost university communications. For email assistance contact the IT Helpdesk at 405-744-HELP (4357).

Computer Labs - A complete description of computer labs and hours of operations are available at their website: <http://home.okstate.edu/ITDLabs>. Lab information is also available by calling the Information Technology Help Desk, 405-744-HELP (4357).

LIBRARY HOURS

Edmon Low Library (405-744-5029)

Digital Library Toll Free: (1-877-744-9161)

Monday-Thursday	7:30 a.m.-2:00 a.m.
Friday	7:30 a.m.-10:00 p.m.
Saturday	9:00 a.m.-10:00 p.m.
Sunday	9:00 a.m.-2:00 a.m.

*Hours will vary during University holidays.

*Contact the following for information on hours of operation:

Architecture Library	405-744-6047
Curriculum Materials Library	405-744-6310
Veterinary Medicine Library	405-744-6655

Library web address: www.library.okstate.edu

GENERAL EXPECTATIONS OF STUDENTS

By enrolling at Oklahoma State University, you accept responsibility for complying with all University policies and contracts, and for local, state and federal laws on- or off-campus that relate to the University's mission. **The Student Rights and Responsibilities Governing Student Behavior** document explains the standards of behavior expected of you, processes in place for enforcing the rules, and the University's response to violations (<http://www.okstate.edu/ucs/srr.html>). In general, the University expects you to respect the rights of others and authority, represent yourself truthfully and accurately at all times, respect private and public property, and take responsibility for your own actions and the actions of your guests. Call 405-744-5470 for more information.

WHERE TO GO FOR HELP

Instructor - If you have questions regarding your class, talk to your instructor. Faculty members usually include their office hours and/or phone number in the class syllabus. If you cannot locate this information, set a time to meet with your instructor by speaking with him/her prior to or immediately following your class session or check with the departmental office on when the instructor may be available.

Academic Advisor - All students will benefit by conferring with an advisor on a regular basis. If you do not know your advisor, or are unhappy with your advisor, talk to the Student Services Director for your college.

Academic911.okstate.edu - Your online resource for academic and personal success, sponsored by Student Affairs.

Mathematics Learning Resource Center (4th Floor, Classroom Building) Tutors are available to answer questions for classes ranging from Beginning Algebra through Calculus II. Tutoring for Differential Equations and Linear Algebra is offered at specific times. Go to www.math.okstate.edu/mlrc or call 405-744-5818.

Writing Center (104 Morrill Hall) The Writing Center helps writers throughout the composing process; you should plan to visit early and often throughout the semester, not just the day before an assignment is due. Tutors will work with you to improve your brainstorming, organizational, and composing techniques. Call 405-744-6671 or go to <http://english.okstate.edu/writing>.

Tutoring (214 Student Union) University Academic Services offers free individual tutoring for a variety of courses. Call 405-744-5333. <http://Academic911.okstate.edu> lists other tutoring services.

University Counseling Services (316 Student Union or 002 University Health Services) Professional counselors offer confidential personal and/or career counseling. Call 405-744-5472 or 405-744-7007 or www.okstate.edu/ucs/Counselingservice.htm.

Office of Student Disability Services (315 Student Union) - According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to www.okstate.edu/ucs/stdis/.

Office of Affirmative Action (408 Whitehurst) Oklahoma State University policy prohibits discrimination based upon gender, race, color, ethnicity, age, religion, national origin, veterans status, disability, or sexual orientation. If you believe that you are being discriminated against, you may discuss your concerns and file informal or formal complaints with Dr. Carolyn Hernandez, 405-744-5371.

SEEK ANSWERS TO YOUR QUESTIONS

The OSU faculty and staff want you to be successful in your educational pursuits. If you have questions or concerns, seek help EARLY. We are here to assist you.