



COURSE SYLLABUS

Course: **ISYS 3293 Systems Analysis and Design**

Prerequisite: ISYS 2263 or CSCE 2014 with a grade of "C" or better.

Course Description:

Practice and application of one structured analysis methodology; development of structured analysis specification; exposure to other methodologies; quality assurance and walkthroughs; survey of real systems and their components.

Text:

Hoffer, Jeffrey A., George, Joey F., and Valacich, Joseph S. **Modern Systems Analysis and Design (6th edition)**. Pearson Prentice Hall: Upper Saddle River, New Jersey. 2011. ISBN: 0-13-608821-X (**Required**)

Software:

MS Project and MS Visio Available in WCOB Lab 112, 233, and 250; JBHT 220 and 222

Value of the Course:

Information systems are built to solve business problems or to take advantage of business opportunities. These systems are expected to be delivered on time, within budget, error free while meeting the needs and expectations of the users. It is up to you, the systems analysts, to meet the design and technical challenges while managing user resistance to change. This course is designed to prepare you for a successful career in this exciting area of information technology.

Course Objectives:

The purpose of this course is for you to know the activities associated with systems development such as basic project management processes, concepts and activities, and UML design diagrams. Additionally, to understand and apply the various tools available for systems development.

Class Procedures:

Lecture, discussion, in-class activities, presentations, assignments, and a group project will be used in the course. Video and computer demonstrations may be used when appropriate. Guest speakers may also be utilized in this course.

We will be using the Blackboard software. The software allows for me to post documents, announcements, etc. as well as for you to take quizzes and exams. The website address is <http://learn.uark.edu>. It will be each student's responsibility to check the class blackboard page for news and/or announcements about their particular class, as well as any changes and/or additions to the tentative schedule. This webpage and e-mail will be used extensively throughout the summer session as our communication tool.

Recording:

Students may not record any class or office sessions without the consent of the instructor. Video captures of each class period will be available for student viewing.

Class Schedule:

The course schedule is listed at the end of the document and the syllabus is posted on Blackboard. The schedule is subject to change. Students will be notified of significant changes to material or activities. Students are responsible for keeping up with materials and assignments.

Accommodations:

If you need any type of accommodation due to a disability, **please see me in my office within the 2nd week of class** to discuss necessary arrangements. Students are responsible for requesting accommodations from the Center for Educational Access (CEA). The Walton College of Business policy is that any student must also request testing accommodations from their instructor. **You must submit the CEA report for any accommodation to me.** Schedule a meeting with me in my office to discuss necessary arrangements.

Attendance Policy:

I will assess class attendance periodically. Regular class attendance is vital because the nature of the course is a hands-on learning environment. If you should need to miss a class, it will be your responsibility to obtain notes and any class information given. During the session there will be points associated with some of the in-class assignments – you must be in attendance to receive the points.

Inclement Weather:

Should we have bad weather during this semester, I would expect you to use your best judgment regarding attending class. If classes are cancelled (University of Arkansas closes), RazAlert will notify those signed up for the service and a recording will be available at the telephone number 575-7000 and announced on television and/or radio. This recording will also include Razorback Transit operations information as well. Please see the inclement weather policy located on the University's web page (<http://www.uark.edu>) for further information. Also KUAF, 91.3 FM, the University's public radio station, is another good source for receiving information.

Communication and Office Hours:

Please see the first page at the top for available office hours. I will be happy to schedule an appointment with you if the times listed do not work with your schedule. If you need assistance please do not hesitate to visit during office hours or schedule an appointment. I will check e-mail at least once per weekday during the session and will attempt to respond within 24 hours. E-mail is usually checked in the morning when arriving at the office and before leaving to go home for the day; weekends will have longer response times.

Classroom Behavior:

Appropriate classroom behavior is expected of the instructor and all students. Inappropriate and disruptive classroom behavior (inappropriate language and gestures, class disruptions, disrespect to other students or instructor, and other behavior as determined by the instructor) will not be tolerated and will result in possible removal from the class and /or disciplinary action as per the student handbook.

Please turn cell phones to vibrate mode at the least. Please respect the learning environment of your fellow students by refraining from texting, surfing the web, or any other non-class related activity on any electronic device in class. These activities distract those around you and can detract from their learning experience. If you feel that you must do any of these activities, please leave the room to do so.

Equal Treatment for All:

The University Catalog reprints the Campus Council Statement on Discrimination. In the spring of 1983, the Campus Council adopted a statement on equal treatment, amended in fall 1991: “The Campus Council of the University of Arkansas, Fayetteville, does not condone discriminatory treatment of students or staff on the basis of age, disability, ethnic origin, marital status, race, religious commitment, sex, or sexual orientation in any of the activities conducted on this campus. Members of the faculty are requested to be sensitive to this issue, when, for example, presenting lecture material, assigning seating within the classroom, selecting groups for laboratory experiments, and assigning student work. The University faculty, administration, and staff are committed to providing an equal educational opportunity to all students.”

Exams:

There will be three exams given throughout the summer session including a final exam. The format of each exam will be announced in class prior to the day of the exam. Dates of the exams will be posted on the class schedule. Each exam is worth 100 points. **Absolutely no makeup exams** will be given for uncoordinated/unexcused exam absences. ***Any uncoordinated, unexcused exam will result in a score of 0 for that exam***, unless prior permission has been given. Permission to take a make-up exam will be given only for extreme circumstances.

A grade of zero (0) will be assigned if any examination materials are removed, even briefly, from the examination administration or the graded examination review site before, during, after, or during graded review of an examination, NO EXCEPTIONS. When exams are returned to you in the classroom and/or office environment for viewing your score, make sure they are returned to your instructor or a grade of zero (0) will be assigned to you for that particular exam. If you are absent on the day exams are returned in the classroom, it will be your responsibility to contact your instructor and make an appointment to come by my office and view your exam.

Quizzes:

There will be announced and unannounced quizzes. No late or make-up quizzes will be given, but with good cause, early quizzes may be given with adequate notice. The quizzes will be taken during the class period and will cover present material discussed in class. If a student comes to class after a quiz has been given OR leaves class prior to a quiz being distributed or administered, a grade of “0” will be given to the student for that particular quiz.

Assignments:

The best way to become familiar with Systems Analysis and Design concepts is by using them. To aid in your learning there will be individual assignments in this class.

- The due date and points for each assignment will be shown on the assignment, announced in class, listed on the Blackboard grade book, and/or listed on class schedule. Late

project/assignments including will have a **10% point deduction** and will be only accepted up to 2 days (not business days) after the due date.

- If the assignment is a group assignment, all team members will receive the late deduction.
- Assignments are due by 11:59 PM on the due date unless otherwise announced.
- Assignments are to be completed individually and on your own unless otherwise noted on the assignment or announced in class.
- Assignments should be completed in accordance with the University of Arkansas Academic Integrity Policy.
- Please include your name and assignment number in the upper right hand corner of the document's first page.
- All documents should be saved in an MS Word format unless other software is required such as Excel, PowerPoint, or course-specific tools.
- You will submit your assignments using the "Assignments" feature in Blackboard. Please make sure your files are free of viruses before sending them as attachments. Submission of an assignment with a computer virus may lead to a grade of zero on the assignment.
- When submitting files, you must include your name and the name of the assignment in the file name. For example, if Jane Doe was submitting an assignment called "Assignment 1", the filename would be: "jdoe_assign_1.doc". Also, make sure to include your name, course name, and page number in the header or footer of the document. Credit will not be given if this information is omitted.
- You may use either your own computer or one in any of the available labs.

Project:

The project assigned in the class involves a system analysis and design of a realistic company. The project will be introduced in several milestones. The project groups will be made up of 3 - 5 people with the maximum of 5 people. I reserve the right to arrange/rearrange team assignments. Group members will critique other group members' contribution and these critiques will have a direct bearing on the points allocated to individuals on each team. Further details on the project will be given later.

Grades:

Final scores will be computed as the following:

Exams: (3@ 100 points each)	300
Assignments	50
Participation	25
Quizzes	50
Team Project	200
Total Points Possible for Class:	625

Points Required:

560	A
497	B
435	C
372	D
371 - below	F

Academic Honesty:

As a core part of its mission, the University of Arkansas provides students with the opportunity to further their educational goals through programs of study and research in an environment that promotes freedom of inquiry and academic responsibility. Accomplishing this mission is only possible when intellectual honesty and individual integrity prevail.

Each University of Arkansas student is required to be familiar with and abide by the University's 'Academic Integrity Policy' which may be found at <http://provost.uark.edu/> Students with questions about how these policies apply to a particular course or assignment should immediately contact their instructor.

Application of the Academic Honesty Policy, as stated at <http://provost.uark.edu/> will be fully adhered to in this course, and all courses within the Sam M. Walton College of Business.

Disclaimer:

The instructor may deviate from the schedule and/or make changes to the syllabus. Changes in the syllabus will be announced in class or via e-mail.

Class Schedule:

The following is a preliminary course schedule which is subject to change. Students will be notified of significant changes to material or activities. Students are responsible for keeping up with materials and assignments.

Read through Syllabus and look over Blackboard content
Chapter 1 – The Systems Development Environment
Chapter 2 – The Origins of Software
Memorial Day Holiday – No Class
Chapter 3 – Managing the Information Systems Project
Chapter 3 Appendix – Object Oriented Analysis and Design: Project Management
Exam Review
Exam 1; Begin Chapter 4 – Identifying and Selecting Systems Development Projects
Chapter 4 – Identifying and Selecting Systems Development Projects
Chapter 5 – Initiating and Planning Systems Development Projects
Chapter 6 – Determining System Requirements
Chapter 7 – Structuring System Process Requirements and Appendix 7A – Object-Oriented Analysis and Design: Use Cases
Appendix 7B – Object-Oriented Analysis and Design: Activity Diagrams; Appendix 7C – Object-Oriented Analysis and Design: Sequence Diagrams; Exam Review
Exam 2; Begin Chapter 8 – Structuring System Data Requirements
Chapter 8 – Structuring System Data Requirements and Appendix, Chapter 10 – Designing Forms and Reports
Chapter 11 – Designing Interfaces and Dialogues; Chapter 13 – System Implementation; Chapter 14 – Maintaining Information Systems; Exam Review
Exam 3; Project Work Time
Project Presentations