



COURSE SYLLABUS

Course: **ISYS 4363 Business Project Development**

Pre or Corequisite: ISYS 4283. Prerequisite: ISYS 3393 with a grade of "C" or better

Course Description:

Application of the fundamentals of systems analysis, design, programming, systems development and the implementation of such a system. Prerequisite: ISYS 3393; Pre-Co-requisite: ISYS 4283. ISYS 4283 (DB) is strongly recommended as a pre-requisite.

Value of the Course:

ISYS 4363 introduces the development and management of systems as an essential part of information systems, decision support systems, and transaction systems. General concepts and methods of the management of information systems development and project management will be experienced. Team projects will be used to re-enforce and further develop the concepts IS development. Since the essence of most information systems is the data base system, decision support, and business transactions, these will be the main areas of concentration for the projects. Of equal importance in the business context is the maintenance of systems. As a result, the maintenance of an application system will be a component of the course.

Course Objectives:

This capstone course is designed to allow the student to demonstrate his/her ability to integrate the knowledge and skills necessary (analysis and design, programming, and database) for successfully developing and maintaining application systems and managing projects. In order to accomplish this, the student will participate as a team member of a project team in the maintenance of a system as well as in the development of a large-scale information system of considerable complexity. The final project will include a presentation of results. The project will require the integration of tools learned in previous courses including project management, systems analysis and design, programming, and DBMS. Available tools will include IBM Rational, Visual Basic.NET, Microsoft Project, and MS SQL Server. Upon successfully completing this course, students will be able to:

- understand and apply tools of analysis and design and entity relationship diagramming to problem solving,
- understand and apply programming languages and database concepts to problem solving,
- understand and apply Project Management concepts to problem solving,
- maintain, change, and enhance a previously developed project; as well as a comprehensive new system,
- apply the following IT skills –communications & presentation, problem solving, project management, user requirements gathering, programming, documentation, and team work,
- develop a comprehensive Decision Support Systems and Transactions Based Systems,

- develop a better understanding of Project Management, IS Consulting Concepts, and ERP/SAP Solution Manager (if available).

Text Materials:

Kathy Schwalbe, An Introduction to Project Management, 4th Edition, (Kathy Schwalbe LLC, 2012), ISBN: 10-0982800339

Texts used (or any similar to those used) in previous courses (analysis and design, .NET, and Database) will be needed for reference. Handouts will be provided for some parts of the course as needed.

Class Procedure:

The majority of class time will be devoted to discussion and presentation of the ongoing project(s) and progress as well as information technology/systems material. Much of the class time will be used for teamwork, project work, and communication with the instructor.

Office Hours:

8:00am - 9:30am TR for this class and by appointment.

BlackBoard and Electronic Mail (E-Mail) –

When sending me email about this course, specify ISYS 4363 in the Subject line.

BlackBoard and E-mail are integral parts of the ISYS 4363 curriculum and will be used frequently as a means of communication between the instructor and students. It is your responsibility to make sure that you are receiving e-mail from your instructor. I check my e-mail at least once per weekday during the semester and will attempt to respond to your correspondence within 24 hours. I usually am sure to check my email each morning when I come in about 8am.

If you use another email address that you want to receive your email at, it is your responsibility to set up your UARK account to forward incoming mail to your off-campus address. See <http://www.uark.edu/mail-maint/> for info on how to forward your mail.

Attendance Policy:

All students are expected to attend scheduled classes and their respective group meetings. Failure to do so may jeopardize a student's scholastic standing and may lead to suspension from the University in certain circumstances. Only official excuses will be accepted. If a class (or team meeting) is missed, it is the student's responsibility to obtain assignments, lecture notes, etc.

Moreover, it is the student's responsibility to keep up with all on-line weekly content, assignments, and projects. Extensive use of BlackBoard and on-line interaction is expected in this course.

Inclement Weather:

From time to time we could be challenged by the weather. Class will be canceled when the University is closed (see uark.edu website or UA weather hotline 479-575-7000). Class may also be canceled due to inclement weather even though the University remains open; please check BlackBoard and/or call my office extension (575-6130) on those questionable weather days (ie., ice on roads).

When the weather is such that there are questions about whether we are having class, by 7:00AM of that class day your instructor will post an announcement on BlackBoard and send an email regarding the status of class that evening. A message will also be placed on your instructor’s phone greeting. Check in with BlackBoard or by phone.

Course Evaluation and Policies:

- All students are expected to attend scheduled classes and their respective group meetings. Failure to do so will affect your grade.

- Please notify the instructor of any special requirements or accommodations (learning or physical challenges) needed for this class within the first week of classes.

- All efforts in the course are designed to help you and your group produce and present successful projects. Therefore, all students start with 200 points—a letter grade of A. In ISYS 4363, you are asked to complete:

1. Analysis & Design Summary/Presentation	10 points
2. VB.NET Database Maintenance program	15 points
3. Microsoft Project Application	10 points
4. Individual/Group work – participation, individual contribution, meetings, communication, and organization	15 points
5. Maintenance Project	50 points
6. Development Project	100 points
 Total Points	 200 points

Points will be deducted when items are not turned in at the time when asked to turn them in for grading. Grading for the maintenance project and the development project includes the following:

Member Participation and Contribution to the Project(s) - Participation in your team/group is expected (an integral part of this course). Member participation, competency, and teamwork will be evaluated by the instructor and by team members.

- Member Skills and Competency (finding solutions and solving one’s own problems)
- Project Management –
- Demonstrated application and use of Project Management Concepts (see text)
- Demonstrated management -- team member roles, scheduling, planning, on-time, MS Project, team work, and organization

- Communications: Memos - Reports (written)
- Analysis, Design, and Development of the Project/System – appropriate documentation
- Completed Project (structure and completeness, design, user interface, working system, maintainability)
- Peer Evaluation
- Presentation (oral) and Documentation

Project Check Points:

Projects of major proportion are easily started and sometimes never finished. Another problem is that the software resulting from the project is so poor as to be worse than nothing at all. Producing a system of high quality involves the use of project management techniques and reaching project checkpoints on time.

The project description has delineated the items and checkpoints required by the project.

You will be required to keep all your materials in a notebook binder and the project will be tracked on a regular basis.

Microsoft Project (MS Project) Application Manager will be used and updated so you can track the project progress and deliverables.

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. Academic dishonesty involves any act, which may subvert or compromise academic integrity or the integrity of the University's 'Academic Integrity Policy'.

If you have any questions regarding individual requirements or group work requirements, please ask.

Special Needs:

Notify the instructor of any special requirements or ADA accommodations needed for this class within the first week of classes by presenting the instructor with the official paperwork from the UA Center for Educational Access, <http://www.uark.edu/ua/csd/>