SYLLABUS

BCIS 4610: ANALYSIS OF BUSINESS INFORMATION SYSTEMS
Fall 2014

Lectures: BLB 245, Thursdays, 6:30-9:20 PM
Instructor: Dr. Anna Sidorova, Office: BLB 358B
Email: anna.sidorova@unt.edu, Phone: (940)565-3109
Office Hours: Mon 12:00-1:00, Thu 5:00-6:00 PM, or by appointment

TEXTS & SOFTWARE

Text (mandatory): Dennis A., Wixom B. H. and Roth R. M. *System Analysis and Design*, 5th ed., John Wiley & Sons, 2012
Text (mandatory): Magal, S. R. and Word J. *Essentials of Business Process and Information Systems*, John Wiley & Sons, 2009
Software: MS Visio, MS Office Project, Visible Analyst Workbench, access to COB labs, access to a development environment of your choice.
Other readings may be distributed throughout the semester.

COURSE MATERIALS/WEB SITE

Course materials will be available on Blackboard Learn.

COURSE DESCRIPTION

The course offers an integrated perspective of the problems in today's Information Systems (IS) environment with concentration on contemporary design methodologies and considerations unique to users of computers and IS. Topics include current systems analysis, modular design, development and implementation, documentation, project planning and task definition, and other systems analysis topics. The course emphasizes structured approach to the analysis and design of information systems.
Prerequisites: BCIS 3610; 2.7 UNT GPA (2.7 transfer GPA if no courses taken at UNT).

Learning Objectives

Upon successful completion of this course, you are expected to:

- Become familiar with foundations of organizational business processes and how they are supported by information systems;
- Become familiar with the existing approaches to systems analysis and design;
- Learn how to use a variety of tools and techniques for analyzing business problems and designing information systems;
- Gain hands-on experience in designing an information system;
- Gain exposure to modeling tools;
- Learn how to successfully plan and manage an IS project;
- Learn how to effectively communicate with potential IS users and other stakeholders.

ATTENDANCE

Attendance is expected. Arrive on time and stay for the duration of each class. If you must miss a class, you remain fully responsible for all handouts, changes in the schedule, and other information given during class. Please get the lecture notes and handouts from your classmates or from the course Web site.

COURSE ASSIGNMENTS AND EVALUATION

Your performance will be evaluated as follows:

Assignments		Points	%
Individual			
	Midterm exam	250	25%
	Final exam	250	25%
	HW assignments	100 (4@25 pts. each)	10%
	Pop-up quizzes	100 (4@25 pts. each)	10%
Total Individual		**700**	**70%**
Team Project			
	Project ID	25	2.5%
	Project proposal	50	5%
	Project walkthrough	25	2.5%
	Interim project report	75	7.5%
	Final project report	75	7.5%
	Final Presentation*	50	5%
Total Team Project**		**300**	**30%**
TOTAL***		**1000**	**100%**

*The team voted as best by its classmates will get a 5-point bonus on this assignment
**Your total project grade may be adjusted down by up to 20% if your team members rate your performance on the project as unsatisfactory.
***Extra-credit of up to 15 points (1.5%) may be earned by completing the INNOV8 game and presenting the proof of completion to the instructor before Nov. 10.

Other extra credit opportunities may be announced in class at the discretion of the instructor. Such extra credit will be available only to those students who are in attendance at the time it is announced.

Grades will be assigned as following

A = 90%-100%; B = 80%-89%; C = 70%-79%; D = 60%-69%; less than 60% = F

Exams

There will be a midterm exam and a comprehensive final exam. The exams will be in-class, closed book, closed notes and may contain problems and/or multiple choice questions. No make-up exams will be given with the exception of cases of documented medical or family emergency.

Group Project

As a part of the class you will work in teams to design a simple information system and develop a simple prototype of the system. You will need to identify a business need that can be addressed using an IS application. You will then analyze requirements and design such application and develop a proof of concept prototype. Additional information on the project is provided in a separate handout. The project is designed to provide you with realistic experience in systems analysis and design and is expected to be the most time consuming component of the course. Each team member should expect to work 6 -10 hours per week on the project.

Project deliverables will include Project ID, Project proposal and plan, two project reports (interim and final), project walkthrough and a group presentation. All project deliverables

should be submitted on the due dates indicated in the course schedule during the class. Project walkthrough should be scheduled on a date before the due date for the interim project report. The presentation dates are on the schedule. More details on each of the project deliverables will be provided separately.

Teamwork is an important part of the project. Each project team will consist of three or four individuals. Teams will be formed on a voluntary basis around emerging team leaders. Team leaders will be responsible for managing their team and resolving team conflicts. Everyone in a project team should contribute equally and all team members are expected to get the same grade for project assignments. To ensure adequate participation by all team members, peer evaluations of team member performance will be submitted with project assignments, including proposal, interim report and final report. The average of all peer evaluations for the entire semester will be computed for each student. If such average is below satisfactory (below 2 on the 4-point scale) the total project grade of the student may be reduced by up to 20%.

Homework

There will be 4 mandatory and 1 optional homework assignments; these assignments are to be completed **individually**. The optional HW (HW5) is designed to help you better prepare you for the final exam. There will not be extra credit for completing HW5, but you can substitute the HW5 grade for any of the first 4 HW grades. Homework assignments are likely to involve working with modeling tools. Assignments will be due in class or over Blackboard before the designated due date) on the dates specified in the schedule. Each assignment which you turn in must have the following information typed and centered on the first page: your name, the assignment number, the due date and the topic of the assignment.

Pop-up quizzes

There will be 5 pop-up (unannounced) in-class quizzes based on the material presented in previous lectures and textbook readings. No make-ups will be allowed for these exercises/quizzes, but only 4 best quizzes will count towards your grade. In-class exercises and quizzes will normally take place during the beginning of the class. So do not be late if you do not want to miss the points.

OTHER POLICIES AND PROCEDURES

Late Submission Policy

All assignments are during the class on the due date. For some assignments, late submissions may be accepted for 50% credit (requires consent of the instructor, individual assignments only).

In Case of Campus Closure

Should UNT close campus, it is your responsibility to keep checking your official UNT e-mail account (EagleConnect), as well as class Web site and Blackboard to learn about modifications to class activities, assignments and schedule, if any.

Use of Electronic Devices

The students are encouraged to bring electronic devices with Internet connectivity to class for use during the class time **as directed by the instructor**. Recreational use of electronic devices in class greatly disrupts the learning process. Consequently, you are **not to** use you electronic devices for browsing the web on unrelated topics, watching movies or TV programs, talking to friends, etc. It is particularly important that you have your cell phones

and other devices turned to silent option. If one of these devices "sounds-off" during class time, the instructor may ask the student to leave the class. Continual disruptions of the class by the same student may result in permanent removal of the student from class and additional disciplinary action. If you have a genuine emergency on a given day that required a personal use of a cell phone during the class, discuss the matter with the instructor in advance to obtain an appropriate policy.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Center for Student Rights and Responsibilities to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at www.unt.edu/csrr

Code of Conduct and Ethics

This course adheres to the UNT policy on academic integrity. The policy can be found at http://vpaa.unt.edu/academic-integrity.htm.

The Student Evaluation of Teaching Effectiveness (SETE)

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short Web-based survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

Students with Disabilities

The College of Business Administration complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disability. If you have an established disability as defined in the Americans with Disabilities Act and would like to request accommodation, please see your instructor as soon as possible.

TENTATIVE COURSE SCHEDULE

The topics and dates as outlined in the course schedule are subject to change. All necessary changes will be announced and discussed in class in advance. You are responsible for making sure you are aware of any such changes.

Date	Subjects covered	Reading	Deliverables
28-Aug-2014	Course information Introduction to SA&D Project selection and management	DWR Ch. 1, 2	
4-Sept-2014	SA&D Methodologies Requirements planning and elicitation	DWR Ch. 3,4	Teams finalized Project ideas discussed
11-Sept-2014	Use case analysis Functional decomposition Data flow modeling	DWR Ch. 4, 5	Project ID due
18-Sept-2014	Process modeling, INNOV8 game Introduction to core processes	MW Ch 1-5	HW1 due
25-Sept-2014	Process modeling cont'd	BPMN handout	Project Proposal due; HW 2 due
2-Oct-2014	Midterm exam review Intro to conceptual data modeling	DWR Ch. 6	
9-Oct-2014	**MIDTERM EXAM, Team work**	**All readings to date**	
16-Oct-2014	Logical data models and relational databases	DWR Ch. 6	HW 3 due
23-Oct-2014	Moving into design Architecture design	DWR Ch.7, 8	Interim Project Report due
30-Oct-2014	User interface design Program design	DWR Ch. 9-11	HW 4 due
6-Nov -2014	Object oriented models overview	DWR, Ch.14	INNOV8 extra credit due Nov 10
10-Nov-2014	Moving to implementation Transition to the new system	DWR, Ch. 12-13	HW 5 due - optional, can be substituted for any of the other HW
20-Nov-2014	Project Presentations		
27-Nov-2014	**THANKSGIVING – NO CLASS**	N/A	
4-Dec-2014	Final exam review	N/A	Final report due
11-Dec-2014	**COMPREHENSIVE FINAL EXAM (during regular class time)**		