SYLLABUS

BCIS 4610: ANALYSIS OF BUSINESS INFORMATION SYSTEMS
Fall 2015

Lectures: BLB 055, 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*, 6th ed., John Wiley & Sons, 2015
Text (optional): 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.

COURSE DESCRIPTION

The course offers an integrated perspective of the problems in today's information systems environment, concentration on contemporary design methodologies and considerations unique to users of computers and information systems. Topics include current systems analysis, modular design, development and implementation, documentation, project planning and task definition, and other systems analysis topics. *Prerequisite(s): BCIS 3610 or equivalent; 2.7 UNT GPA; a grade of C or better in each previously taken BCIS course, or consent of department.*

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 exposure to modeling tools and development environments;
- Learn how to successfully plan and manage an IS project;
- Learn how to effectively communicate with potential IS users and other stakeholders;
- Gain hands-on experience in designing an information system.

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 (10@10 pts. each)	10%
	Pop-up quizzes	100 (10@10 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
**All team members will receive the same grade for all deliverables, with the exception of persons who are fired from the team at least 2 weeks before the deliverable is due.
***Extra-credit assignment may be announced in class. The total extra credit opportunities will not be in excess of 20 points (2% of the grade).

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 four to five 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.

In the case of consistent non-participation by a team member, the rest of the team can fire a team member by following the process described below. If a team members is dismissed at least 2 weeks prior to the due date for a project deliverable, he/she will receive **a zero for that deliverable and all subsequent deliverables** unless he/she joins another team and submits the corresponding deliverables as a part of that other team.

Dismissal process: A team member, including a team leader can be dismissed (fired) from a team by a unanimous decision of all other team members documented using a Team member dismissal form. Dismissing a team member is expected to be a rare event. Before considering dismissing a member from a team the team is required to issue a written notice (over email) to the team member, advising him/her about his/her unsatisfactory performance and stating what is expected from him/her. A copy of such notice email should be sent to the instructor. If the team member does not improve his performance within one week, the team will send a warning email to the team member notifying him/her about pending dismissal from the team, with a copy of the email sent to the instructor. One week after sending the warning email the team can submit the Team member dismissal form signed by all members to the instructor, copying the dismissed team member. A team member is considered dismissed from the team from the moment the team member dismissal form is received by the instructor. A team member dismissed from a team less than 2 weeks before the due date for a deliverable will receive the same grade on that deliverable as the rest of the team. No team member can be dismissed from a team after Nov 1, 2015. In order to join a new team, a dismissed team member needs to get support from at least half of that team's members.

All voluntary changes in team composition should be done at least 2 weeks before the due date for any project deliverable, and be approved by the instructor. No changes in team composition can be made after Nov. 5, 2015.

Homework

There will be 12 homework assignments, of which 10 with the highest score will count towards your grade. These assignments are to be completed **individually**. Homework assignments will involve solving course-related problems, completing Code Academy training units and working with modeling tools. Assignments will be due 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 12 in-class exercises/quizzes based on the material presented in lectures and textbook readings. No make-ups will be allowed for these exercises/quizzes, but only 10 best grades will count towards your grade. In-class exercises and quizzes will normally take place throughout the duration of each 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.

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.

Teaching Evaluations
Evaluation of the instructor's teaching effectiveness by the students is a requirement for all organized classes at UNT. At the end of the semester/session there will be a short Web-based survey, and/or an in-class paper survey, 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 your participation as an important part of 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
27-Aug-2015	Course information Introduction to SA&D Project selection and management	DWR Ch. 1, 2	
3-Sept-2015	SA&D Methodologies Requirements planning and elicitation	DWR Ch. 3,4	Teams finalized Project ideas discussed HW 1 due
10-Sept-2015	Use case analysis Functional decomposition Data flow modeling	DWR Ch. 4, 5, 14	Project ID due HW2 due
17-Sept-2015	Process modeling, Introduction to core processes	MW Ch 1-5 BPMN handout	HW3 and HW4 due
24-Sept-2015	Process modeling cont'd Conceptual data modeling	BPMN handout	Project Proposal due; HW5 due
1-Oct-2015	Midterm exam review Intro to conceptual data modeling	DWR Ch. 6	HW6 and HW 7 due
8-Oct-2015	**MIDTERM EXAM, Team work**	**All readings to date**	
15-Oct-2015	Logical data models and relational databases	DWR Ch. 6	HW 8 due
22-Oct-2015	Moving into design Architecture design	DWR Ch.7, 8	Interim Project Report due HW9 due
29-Oct-2015	User interface design Program design	DWR Ch. 9-11	HW10 due
5-Nov -2015	UML models	DWR, Ch.14	HW11 due
12-Nov-2015	Moving to implementation Transition to the new system	DWR, Ch. 12-13	HW12 due
19-Nov-2015	Project Presentations		
26-Nov-2015	**THANKSGIVING – NO CLASS**	N/A	
3-Dec-2015	Final exam review	N/A	Final report due Last day for any late submissions.
10-Dec-2015	**COMPREHENSIVE FINAL EXAM (during regular class time)**		