

**BCIS 5120 - Information Systems Development**  
**Fall 2009**  
**COURSE SYLLABUS**

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Office: BA 235C  
Office Hours: 1:00 – 2:00 pm, Tue  
2:00 – 4:00 pm, Wed  
and by appointment

## **COURSE DESCRIPTION**

The foundations of business information systems analysis and design. Concentration on contemporary design methodologies and computer-aided software engineering techniques. Topics include strategic information systems planning, requirements analysis, user interface design, data design, process design, system testing, ethics and systems audit ability, control and security.

## **COURSE OBJECTIVES**

1. Develop knowledge and skills needed to analyze/design computer-based information systems.
2. Develop the ability to use tools and methodologies used to analyze/design computer-based information systems.
3. Develop the ability to define and bound a problem, collect appropriate information, synthesize requirements, and design a modern computer-based information system.
4. Enhance interpersonal and teamwork skills, and project management skills.
5. Describe the major alternative methodologies used in developing information systems and the considerations involved in choosing which methodology to use.
6. Integrate and apply various systems analysis and design concepts to 'real-world' situations.

## **PREREQUISITES**

- BCIS 5090 (Introduction to Business Computer Information Systems) or equivalent, or consent of department.

## **TEXTBOOKS AND OTHER MATERIALS**

- Hoffer, Jeffery A., George, Joey F. and Valacich, Joseph S. *Modern Systems Analysis and Design, 5<sup>th</sup> ed.*, Prentice Hall, 2008.
- Additional, optional books to be announced in class.

## **CLASS WEBCT SITES**

The course extensively uses WebCT Vista (<https://webctvista.unt.edu>) for communication between the instructor and students and among students.

## GRADING

### Point Distribution

Component	Points
3 exams (200 each)	600
Individual assignments	150
Team project	200
Attendance, presentation and participation	50
<b>Total</b>	<b>1,000</b>

### Grading Scale

Percent	Grade
90.0 – 100 %	A
80.0 – 89.9 %	B
70.0 – 79.9 %	C
60.0 – 69.9 %	D
Less than 60 %	F

## INDIVIDUAL ASSIGNMENTS

Up to five assignments will be given throughout the semester on topics covered in class. Most of the assignments will require the use of software such as Oracle, Microsoft Access and Microsoft Project. Details on the assignments will be provided in class.

Unless otherwise instructed, all assignments are due at the beginning of the class on the due date. Any assignment turned in late (i.e., after assignments have been collected) will be penalized by 50 percent of the total possible grade. No assignments will be accepted after the due date.

## TEAM PROJECT

Each student will participate in a systems analysis and design project as a team member. The objective of the project is to give students hands-on experience of analyzing and designing a computer-based IS application following a structured systems development methodology and using a CASE tool such as Oracle Designer.

### Team:

Each team will consist of three members. It is the responsibility of individual students to find colleagues to work with as a team. Once a team is formed, each member has obligation to stay and function as a productive team member until the completion of the project. Any disputes, conflicts and problems within a team must first be resolved among the members.

Each team will elect team leader who will be responsible for coordinating various project tasks and communicating with the instructor. You may also elect or assign different titles to team members, reflecting different duties and specializations. However, the performance of a team will always be graded as a single unit. That is, the team will get only one grade for their work. However, individual members will receive an adjusted grade at the end of the semester, which reflects the level of contribution as assessed by peers (see enclosed peer evaluation form).

**Milestone Reports (80 points):**

At the end of each important phases of the project, each team will prepare and submit a report that documents all relevant information as specified in the project case.

Milestone	Title	Chapters	Due	Points
1	Systems analysis (summary)	1 - 5	Sep 15	20
2	Systems design	6 - 9	Oct 13	20
3	Systems development	10 - 14	Nov 10	20
4	Systems implementation	15 - 16	Dec 1	20

**Presentation and Demonstration (40 points):**

At the conclusion of the project, each team will make a presentation to demonstrate the system and discuss any relevant issues. The objective of these presentations is to deliver the finished system that meets the needs of the user. Details of presentations will be provided later in class.

**Final Report (50 points):**

Final report collects and organizes all documents prepared and used throughout all phases of the project.

The following is a list of minimum requirements for the report:

- Table of contents
- Executive summary
- Page number on each page (except the cover page)
- All reports and documents collected or produced during the project
- All support diagrams and printout

**Peer Evaluation (30 points)**

All members of the team will receive the same grade for the presentation and the report. At the end of the project (after the report has been submitted), the team members will anonymously evaluate each other on their levels of contribution to the project. The result of this evaluation will determine the points each member will receive for the peer evaluation part of the project grade.

**Report Requirements (All Reports)**

- All report assignments are due at the beginning of the class. Assignments turned in late during the class period will be penalized by 50 percent of the grade. No assignment will be accepted after the class.
- All reports should include a cover page with the following information:
  - Team name
  - Names of team members
  - Title (e.g., Milestone 3 Modeling the System's Data)
  - Class and section (i.e., BCIS 5120-001)
  - Due date
- All pages except the cover sheet must be numbered.
- The final report must be submitted in a three-ring binder with all documents organized with a table of contents and tabs that identify major sections.

## ATTENDANCE AND CLASS PARTICIPATION

Regular and punctual attendance for the full class period is expected. Attendance will be recorded. You must attend the entire class to avoid being recorded absent. Any student whose absences exceed the equivalent of two weeks of the class without proper notice may be dropped by the instructor with a WF for nonattendance.

You are expected to come to class prepared. That means you will need to read the assigned chapters before coming to class and be prepared to discuss them. Attendance and class participation represent 100 possible points of your final class grade. I will assign your class participation score based upon your attendance and the contributions you make in class as follows:

Category (Points)	Criteria
A	Asks good questions, makes valuable observations, and answers questions effectively on an ongoing basis.
B	A frequent participant, but all questions, answers, or observations are not always effective, or not on an ongoing basis, or tends to discourage effectiveness
C	Only participates infrequently, or questions/answers do not reflect adequate preparation, or late to class
D	Very rare participation, or question/answers reflect little or no preparation, or very late to class
F	Displays no sign of life, or is absent for entire class

## CODE OF CONDUCT AND ETHICS

Consult the University of North Texas *Student Handbook* ([www.unt.edu/student/code.htm](http://www.unt.edu/student/code.htm)) for guidelines and policies regarding student academic conduct.

Scholastic integrity *must* be exhibited in your academic work, conduct, and methods. Course work for which you receive an individual grade *must* be your original, individual effort. If any evidence of copying, cheating, or any other form of academic dishonesty on all or part of any of your graded course work, you (and any others involved) will be given a zero for that work. A second incident will result in a grade of F in this course and a recommendation for further action by the Dean of Students.

## 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.

# CLASS SCHEDULE

## BCIS 5120 – Fall 2009

Week	Date	Topic	Note
1	9/1	<ul style="list-style-type: none"> <li>• Course Overview</li> <li>• Chapter 1 – Systems Development Environment</li> </ul>	
2	9/8	<ul style="list-style-type: none"> <li>• Chapter 2 – Origins of Software</li> <li>• Chapter 3 – Managing IS Project</li> <li>• Team Project</li> </ul>	☞ Project team formation
3	9/15	<ul style="list-style-type: none"> <li>• Chapter 4 – Identifying and Selecting Systems Development Projects</li> <li>• Chapter 5 – Initiating and Planning Systems Development Projects</li> <li>• Microsoft Project</li> <li>• Team Project</li> </ul>	
4	9/22	<ul style="list-style-type: none"> <li>• Oracle Designer</li> <li>• Team Project Case Presentations</li> <li>• Review for Exam</li> </ul>	
5	9/29	<ul style="list-style-type: none"> <li>• Chapter 6 – Determining Systems Requirements</li> <li>• Chapter 7 – Structuring Systems Process Requirements</li> </ul>	☞ Milestone 1 due
6	10/6	<ul style="list-style-type: none"> <li>• Exam 1</li> </ul>	
7	10/13	<ul style="list-style-type: none"> <li>• Chapter 8 – Structuring Systems Logic Requirements</li> <li>• Chapter 9 – Structuring Systems Data Requirements</li> </ul>	
8	10/20	<ul style="list-style-type: none"> <li>• Team Project</li> <li>• Microsoft Access</li> </ul>	
9	10/27	<ul style="list-style-type: none"> <li>• Chapter 10 – Designing Databases</li> <li>• Review for Exam</li> </ul>	☞ Milestone 2 due
10	11/3	Exam 2	
11	11/10	<ul style="list-style-type: none"> <li>• Chapter 11 – Designing Forms and Reports</li> <li>• Chapter 12 – Designing Interfaces and Dialogues</li> </ul>	
12	11/17	<ul style="list-style-type: none"> <li>• Chapter 13 – Finalizing Design Specifications</li> <li>• Chapter 14 – Designing Distributed and Internet Systems</li> </ul>	☞ Milestone 3 due
13	11/25	<ul style="list-style-type: none"> <li>• Chapter 15 – System Implementation</li> <li>• Chapter 16 – Maintaining Information Systems</li> </ul>	
14	12/1	<ul style="list-style-type: none"> <li>• Team Project</li> </ul>	
15	12/8	<ul style="list-style-type: none"> <li>• Team Presentations and Review</li> </ul>	☞ Final report due
16		Final	

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Name: \_\_\_\_\_

### Peer Evaluation

How would you allocate 100 points to each of your team members (excluding yourself) based on his/her contribution to the project?

In your evaluation, consider the following (but not limited to):

- Did the member complete assigned tasks in a timely manner?
- Did the member complete the tasks correctly and in a professional manner?
- Did the member attend all meetings?
- Did the member actively participate and make valuable contribution during the meetings?
- Did the member encourage others to do well as a team?

Team Name: _____		
Name	Points	Comment (If necessary)
Total	100	

## Statement on understanding “BCIS 5120 Policies and Procedures”

The ITDS Department expects its students to behave at all times in an ethical and legal manner. There are at least two reasons for this. First, ethical behavior affirms the personal value and worth of the individual. Second, both IT and Decision Science professionals frequently handle confidential information on behalf of their employers and clients. Thus employers of ITDS graduates expect ethical conduct from their employees because that behavior is crucial to the success of the organization.

Academic dishonesty is a major violation of ethical and legal behavior. The ITDS Department defines academic dishonesty as claiming the work of others as your own, or using illegal or unapproved means to raise your grade in a class. Examples include: copying answers from another person’s paper; using unapproved notes during an exam; copying computer code from another person’s work; having someone else complete your assignments or take tests on your behalf; stealing code printouts, software, or exams; recycling assignments submitted by others in prior or current semesters as your own; and copying the words or ideas of others from books, articles, reports, presentations, etc. for use as your own thoughts without proper attribution (i.e., plagiarism). It does not matter whether you received permission from the owner of the copied work; claiming the material as your own is still academic dishonesty.

The ITDS Department believes it is very important to protect honest students from unfair competition with anyone trying to gain an advantage through academic dishonesty. Consequently, there will be in-class testing to validate all major assignments you complete out of class. This may be accomplished by examination, oral reports, individual interviews or any other means your professor may deem appropriate. You must pass these validation tests with a grade of “C” or better to have your out-of-class work count in your term grade. Further, the student grade for academic dishonesty in ITDS classes is an immediate “F” for the course involved and referral of the case to the COBA Academic Advising Office.

By my signature below, I attest that I understand the above policy. I will behave ethically in this class, and will encourage my classmates to behave ethically. I also understand that I have a moral responsibility to report to my instructor any suspected case of academic dishonesty in this class.

I have read the COURSE SYLLABUS and “BCIS 5120 Policies and Procedures.”

I agree to abide by the COURSE SYLLABUS and the above Policies and Procedures

\_\_\_\_\_  
(Initial)

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Name

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E-mail

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Phone

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Signature

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Date