

BCIS 4610/5120 - Information Systems Development Summer 2022

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Office Hours: 2:00 – 3:00 pm, Mon, Tue & 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

- For BCIS 4610 – BCIS 3610 or equivalent; 2.7 UNT GPA (2.7 transfer GPA if no courses taken at UNT); a grade of C or better in each previously taken BCIS course, or consent of department.
- For BCIS 5120 – BCIS 5090 (Introduction to Business Computer Information Systems) or equivalent, or consent of department.

TEXTBOOKS AND OTHER MATERIALS

- Valacich, Joseph S. and George, Joey F. *Modern Systems Analysis and Design*, 9th ed., Prentice Hall, 2020 (ISBN 978-0-13-517275-9) (Required)
- Additional, optional books may be announced in class as needed.

ONLINE TOOLS

- **Canvas**
The course uses Canvas for communication between the instructor and students and among students. Exams are administered using Respondus Lock Down browser with a webcam.

GRADING

Point Distribution

| Component | Weight |
|------------------------|--------------|
| Midterm | 30 % |
| Final | 30 % |
| Individual Assignments | 20 % |
| In-Class Quizzes | 20 % |
| Total | 100 % |

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 |

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 by the end of the due date. No assignments will be accepted after the due date.

CLASS QUIZZES, ATTENDANCE AND 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 and other materials before coming to class and be fully prepared to actively engage in discuss with the class. A quiz will be given in each class in order to assess your preparedness.

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ACADEMIC INTEGRITY STANDARDS AND CONSEQUENCES

According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

Consult the University of North Texas *Student Handbook* (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

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request

accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website at disability.unt.edu.

EMEGENCY NOTIFICATION AND PROCEDURES

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

CLASS SCHEDULE
BCIS 4610/5120 – Summer 2021
 (Last updated: 05/31/2021)

| Week | Date | Topic | Note |
|------|------|---|-------------------------|
| 1 | 6/6 | <ul style="list-style-type: none"> • Introduction & Course Overview • Chapter 1 – Systems Development Environment • Chapter 2 – The Origins of Software • Microsoft Project | |
| | 6/8 | <ul style="list-style-type: none"> • Chapter 3 – Managing IS Project • Chapter 4 – Identifying and Selecting Systems Development | |
| 2 | 6/13 | <ul style="list-style-type: none"> • Chapter 5 – Initiating and Planning Systems Development Projects | • Assignment 1 due 6/14 |
| | 6/15 | <ul style="list-style-type: none"> • Chapter 6 – Determining Systems Requirements • Chapter 7 – Structuring Systems Process Requirements <ul style="list-style-type: none"> ◦ DFD Exercise – What’s Wrong? ◦ DFD Exercise 7.39 - Project Inc. | |
| 3 | 6/20 | Midterm Exam - Using Respondus with Webcam on Canvas (Chapters 1 -7) | • Assignment 2 due 6/21 |
| | 6/22 | <ul style="list-style-type: none"> • Chapter 8 – Structuring Systems Data Requirements (College Database Exercise) • Chapter 9 – Designing Databases Microsoft Access | |
| 4 | 6/27 | <ul style="list-style-type: none"> • Chapter 10 – Designing Forms and Reports download • Chapter 11 – Designing Interfaces and Dialogues <ul style="list-style-type: none"> ◦ The Story of the Ribbon (PowerPoint version) • The Story of the Ribbon (Video) | • Assignment 3 due 6/28 |
| | 6/29 | <ul style="list-style-type: none"> • Chapter 13 – System Implementation download • Chapter 14 – Maintaining Information Systems | |
| 5 | 7/4 | No class – Fourth of July | • Assignment 4 due 7/5 |
| | 6/30 | Final - Using Respondus with Webcam on Canvas (Chapters 8-11 and 13-14 and Team Research Topics) | |