



# Texas A & M – Texarkana

MIS362 Systems Analysis and Design

Course Syllabus

**Fall 2009**

Last Updated August 24, 2009

**Professor:** David Reavis, CCP, Ph.D.

**Office:** 219N

**Email:** david.reavis@tamut.edu

**Office Hours:**

Wednesday	Thursday
9:30 – 11:30	9:00 – 12:00
	6:00 – 7:00

**Phone:** (903) 223-3190

**Course Number:** MIS362.001

**Course Title:** Systems Analysis and Design

**Course Times:** Thursday 7:00 – 9:45

**Catalog Description:** Study of the methodology for analysis and design of a business information system. Emphasis on critical analysis of existing systems and design of computer based systems. A systems analysis project is required. Prerequisite: Computer Literacy, or consent of instructor.

**Text and Materials:**

Systems Analysis and Design Methods 7<sup>th</sup> Edition

By Whitten & Bentley

McGraw-Hill Irwin

ISBN 978-0-07-305233-5

**Course Description and Objectives:**

This course is designed to allow the successful student to gain an understanding of the major elements of systems analysis and design. Students will be required to complete a project in systems analysis that demonstrates an understanding of course materials.

Class content will be lecture based with group learning activities where appropriate.

At the completion of this course the successful student should be able to:

- Describe the various roles and responsibilities of systems analysis and design;
- Explain the process of functional decomposition and its importance to the systems development process;
- Explain the traditional systems development lifecycle and other alternatives to systems development;
- Demonstrated an understanding of how to determine project value to an organization;
- Construct Data Flow Diagrams, and other logic and data models to communicate system characteristics;

- Describe the components, relationships, and functions contained in modern CASE tools; and
- Describe the implications of centralized vs. decentralized computing.

**Tentative Class Schedule:**

Date	Ch	
Week 1 August 27	1	The context of systems analysis and design methods
Week 2 Sept 3	2 - 3	IS building blocks IS development
Week 3 Sept 10	4	Project management
Week 4 Sept 17	5 - 6	Systems analysis Fact finding techniques
Week 5 Sept 24	7 – 8	*Situation Analysis Due Modeling system requirements Data modeling
Week 6 Oct 1	9 & 11	Process modeling Feasibility analysis
Week 7 Oct 8		Mid-Term Exam
Week 8 Oct 15	12	*Problem Resolution Alternatives Due Systems design
Week 9 Oct 22	14	Database design
Week 10 Oct 29	15	*Database Description Due Output design and prototyping
Week 11 Nov 5	16	Input design and prototyping
Week 12 Nov 12	17	*Output Specifications Due User interface design
Week 13 Nov 19	19 - 20	*Input Specifications Due Construction and implementation Operations and support
Week 14 Nov 26		Thanksgiving Holiday
Week 15 Dec 3		Final Exam (250N)
Week 16 Dec 10		Project Presentations

**Evaluation:**

Grades will be based on the timely completion of the following tasks:

30% - Systems Analysis Project

20% - Average of Quizzes and class projects (equal weights)

25% - Midterm exam

25% - Final exam

**Grading Scale:**

A => 90

B => 80

C => 70

D => 60

F < 60

**Classroom Policies**

- Recording devices are to be used only with the prior consent of the instructor.
- Absence during an in-class assignment will be graded as 0 (zero).
- No assignments, research papers, or exams will be accepted after the due date. Any work not completed by the due date will be graded as 0 (zero).
- Academic honesty is expected of students enrolled in this course. Cheating on examinations, unauthorized collaboration, falsification of research data, plagiarism, and copying or undocumented use of materials from any source, constitute academic dishonesty, and may be grounds for a grade of "F" in the course and/or disciplinary action. The student is responsible for reading and understanding the University Policy on Academic Integrity.
- The assignments and exams described in the course represent all possible credit for this class. No "extra credit" work is available.

**Plagiarism (Used with permission from Turnitin.com)**

Many people think of plagiarism as copying another's work, or borrowing someone else's original ideas. But terms like "copying" and "borrowing" can disguise the seriousness of the offense:

According to the Merriam-Webster Online Dictionary, to "plagiarize" means

- to steal and pass off (the ideas or words of another) as one's own
- to use (another's production) without crediting the source
- to commit literary theft
- to present as new and original an idea or product derived from an existing source.

In other words, plagiarism is an act of fraud. It involves both stealing someone else's work and lying about it afterward.

But can words and ideas really be *stolen*?

According to U.S. law, the answer is yes. The expression of original ideas is considered intellectual property, and is protected by copyright laws, just like original inventions.

Almost all forms of expression fall under copyright protection as long as they are recorded in some way (such as a book or a computer file).

All of the following are considered plagiarism:

- turning in someone else's work as your own
- copying words or ideas from someone else without giving credit
- failing to put a quotation in quotation marks
- giving incorrect information about the source of a quotation
- changing words but copying the sentence structure of a source without giving credit
- copying so many words or ideas from a source that it makes up the majority of your work, whether you give credit or not.

Most cases of plagiarism can be avoided, however, by citing sources. Simply acknowledging that certain material has been borrowed, and providing your audience with the information necessary to find that source, is usually enough to prevent plagiarism. You can find more information about plagiarism from [http://www.turnitin.com/research\\_site/e\\_what\\_is\\_plagiarism.html](http://www.turnitin.com/research_site/e_what_is_plagiarism.html)

During this course, student papers will be randomly selected to be submitted to turnitin.com for evaluation. Turnitin.com is a tool that the University may use to determine whether or not any paper contains words or ideas from previously published materials. In the event that plagiarism is detected, a grade of zero will be given for the assignment.

**Accommodations** - Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.

### **Program Goals for the BBA Program**

At the completion of the BBA program, students should have achieved these goals:

- Goal 1: Our graduates will be competent in the broad business disciplines that underlie the BBA degree.
- Goal 2: Our graduates will be competent in the discipline of their chosen major or concentration.
- Goal 3: Our graduates will demonstrate critical thinking skills.
- Goal 4: Our graduates will be able to communicate effectively in writing and in front of a group.
- Goal 5: Our graduates will be competent in the use of analytical tools via business software tools.
- Goal 6: Our graduates will be able to properly integrate business disciplines in developing holistic, multi-functional solutions.
- Goal 7: Our graduates will be able to correctly analyze financial statements.