BEMIDJI STATE UNIVERSITY

COLLEGE OF BUSINESS, TECHNOLOGY AND COMMUNICATION
Course Outline
FALL 2010-

COURSE:	System Analysis and Design - (BUAD 3384)
COURSE CREDIT:	3.0 Credit Hours
INSTRUCTOR:	Mehdi S. Tehrani (PhD)
OFFICE LOCATION:	Decker Hall- Room 25
OFFICE HOURS:	M,W,F, 11-12:00 noon, 1:00PM-2:00PM, T, TH, 11:00-4:00pm
PHONE NUMBER:	218-755-2751 (Office)-1800-475-2001-ext-2751
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ADDRESS:	1500 Birchmount Drive, NE, Bemidji, MN 56601.
CLASS LOCATION:	DH19B
CLASS SCHEDULE:	MWF, 12:00noon-12:50 pm
FIRST DAY OF CLASS:	Monday August 23rd, 2010
LAST DAY OF CLASS:	Monday Dec 6th 2010
PREREQUISITE:	BUAD 2280 / CS1141

REQUIRED TEXTBOOK: Title: Systems Analysis and Design Methods
Author: J.Whitten et al.
Year: 7th edition, 2007
Publisher: McGraw-Hill
ISBN: 13 9780073052335

http://catalogs.mhhe.com/mhhe/viewProductDetails.do?isbn=0073052337

EXTERA READING:
> 1- Systems Analysis & Design in a Changing World by Satzinger et al, 2009.

COURSE DESCRIPTION:

Information Systems Analysis discusses the tools, techniques, and methodologies required to successfully create the conceptual design for an information system. More specifically, we will discuss:
1. what it takes to be a systems analyst,
2. how to manage the information systems project,
3. what methods, tools, and techniques are used to analyze the system request,
4. how a systems development life cycle guides the analysis process,
5. how to determine the system requirements and create a feasibility report,
6. how to model the existing and new system, and
7. how to select the best alternative design strategy.

LEARNING OOUTCOMES:

Any student who completes BUAD 3384 should be able to

1. participate as an effective member of group team,
2. use Visible Analyst Academic Version or MS Project to plan and manage an information systems development project,
3. use business documents (mission, goals, and objectives) to evaluate the system service request,
4. create a statement of work in response to the system service request,
5. create appropriate techniques to determine the system requirements and analyze the business processes,
6. determine appropriate alternatives and guidelines to evaluate and compare when preparing a feasibility study,
7. create a baseline project plan detailing the project, feasibility assessment, and management issues,
8. use a CASE tool to develop the process and data model, and
9. present findings in a professional manner to the client.

Learning outcomes	Measures
System analysis and design concepts	Reading chapters, take quizzes, and Hands-on experience, Discussion, Final exam
Using software (Visible or MS project)	Doing cases/projects, and Hands-on experience,
analyze and solve business problems	Read chapters, do projects, discussion and group presentation
Present findings in a professional manner	do cases and present them

COURSE DESCRIPTION:

Part One The Context of Systems Development Projects

1 The Context of Systems Analysis and Design Methods

2 Information System Building Blocks

3 Information Systems Development

4 Project Management

Part Two Systems Analysis Methods

5 Systems Analysis

6 Fact-Finding Techniques for Requirements Discovery

7 Modeling System Requirements with Use Cases

8 Data Modeling and Analysis

9 Process Modeling

10 Object-Oriented Analysis and Modeling Using the UML

11 Feasibility Analysis and the System Proposal

Part Three Systems Design Methods

12 Systems Design

13 Application Architecture and Modeling

14 Database Design

15 Output Design and Prototyping

16 Input Design and Prototyping

17 User Interface Design

18 Object-Oriented Design and Modeling Using the UML

Part Four Beyond Systems Analysis and Design

19 Systems Construction and Implementation

20 Systems Operations and Support

LECTURE SCHEDULE:

Chapter1	Weeks 1, 2,
Projects & quiz #1	Projects and quiz date will be announced after completing chapters 1-2.
Chapter 2	Weeks 3,4.
Projects & quiz #2	Projects and quiz date will be announced after completing chapter 2.
Chapter 3	Weeks 5,6
Projects & quiz #3	Projects and quiz date will be announced after completing chapter 3.
Chapter 4	Weeks 7,8
Projects & quiz #4	Projects and quiz date will be announced after completing chapter 4.
Chapter 5	Week 9
Projects & quiz #5	Projects and quiz date will be announced after completing chapter 5.
Chapter 6	Week 10.
Projects & quiz #6	Projects and quiz date will be announced after completing chapter 6.
Chapter 7	Weeks 11,12.
Projects & quiz #7 ,	Projects and quiz date will be announced after completing chapter 7.
Chapter 8	Weeks 13,14
Projects & quiz #8	Projects and Quiz date will be announced after completing chapter 8.
Chapter 9	Weeks 15,16
Projects & quiz #7	Projects and Quiz date will be announced after completing chapter 9.

GRADING P0LICY:

Total Points	**100%**
Cases + group presentation	30%
Quizzes	10%
Research paper	45%
Discussion + individual questions + participation	15%

Range	**Grade**
90+ %	A
80+ %	B
70+ %	C
60+ %	D
<60 %	F

Sample grading system:

Sample -

	30%						**10%**						**45%**	**15%**	**100%**
Name	PRJ-1	P-2	P-3	P-4	p-5	Ave	q-1	q-2	q-3	q-4	q-5	Ave	R- P	Dis + Pres	T-G
	30	30	25	30	25	**28**	10	8	10	8	10	**9.2**	**40**	**15**	**93**

QUIZZES AND EXAMS MATERIAL:

Questions in the quizzes are in MC/TF format and are based on textbook. After covering each chapter, you will be given a quiz comprised of about 20 questions. The majority of questions in the final exams (F-E) are from the quizzes that you have taken.

Format of cases for submission:

- Cover page: Names of group members, Group Name, Case #,
- chapter #, Case title
- Introduction (Summary of case)
- State Problems
- Questions
- Answers to questions
- Conclusions
- Max 4 pages, including cover page

-Not respecting the above format will cause losing points.
 -Cases must be submitted before deadline (deadline will be announced for each case after completing each chapter + group presentation date). **Zero grade for not presenting the case and submission after deadline**.

Research Paper:

Your task is to write a research paper about System analysis & Design method focusing on any of the following main topics.

-Information systems development
-Different roles of players in IS development
-Systems analysis approaches
-Project management
-Requirement discovery and fact findings
- Data modeling and analysis

-System proposal and system design
- and so on……(any other topic must be coordinated with instructor)

Please, by the **week 10th** all the groups must define their research paper topic.

Format of the research Paper to receive full marks

You research paper may be focused on any of the above mentioned topic. Your paper must be about 15 pages long single space, font 12. Having the following sections:
-Title of your research paper + your group name + names
-Abstract
-Introduction
-Concept development
-Conclusion
-References (at least 10 cited journal references), APA style
Group must dress up (**wear Sunday best**) for research presentation day. Not following this matter, 5 points will be deducted.

Defining group members:

On the first day of class, I shall define the group members and let you know.

LATE PENALTIES:
1. Late written or software assignments will not be accepted.
2. THERE WILL BE NO MAKEUP QUIZZES OR FINAL EXAMINATION.

ATTENDANCE:

1. Students will attend class regularly. If attendance is impossible, obtain class notes from a fellow student, and then study them for understanding.
2. To get an excuse from class students must inform **at least three working days in advance**, unless it is impossible to do so.
3.Only **15%** absences are allowed which include both excused and unexcused.

ACADEMIC HONESTY:

Cheating on the work for this class will not be tolerated and will result in a failing final grade. The college experience is founded on the concepts of honesty and integrity. Dishonesty, cheating, plagiarism, or knowingly furnishing false information to the college is regarded as particularly serious offenses. Cases of dishonesty will be handled by levying certain penalties. Cheating on the work for this class will not be tolerated and will result in a failing final grade. However, in flagrant cases, the penalty may be dismissal from the college after proper due process proceedings.

DISCRIMINATION:

Bemidji State University does not discriminate on the basis of sex, religion, creed, national origin, race, age, disability, or any other basis prohibited by law. If you believe you have been discriminated against unlawfully, please bring this matter to the attention of your instructor or the BSU's Human Resource Office.

SPECIAL ACCOMMODATIONS:

In coordination with the Disability Support Service, reasonable accommodations will be provided for qualified students with disabilities (LD, Orthopedic, Hearing, Visual, Speech, Psychological, ADD / ADHD, Health Related & Other). Please meet with the instructor during the first week of class to make arrangements. Accommodations and alternative format print materials (large print, audio, disk or Braille) are available through the Disability Support Service, located in Office for Students with Disabilities Sanford Hall (218-755-3883).

GOOD LUCK!