

# BEMIDJI STATE UNIVERSITY

COLLEGE OF BUSINESS, TECHNOLOGY AND COMMUNICATION

Course Syllabus

[System Analysis 2011-Online](#)

**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:** NA

**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:** NA

**FIRST DAY OF CLASS:** **Monday 6th, 2011**

**LAST DAY OF CLASS:** **July 29<sup>th</sup> 2011**

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

<b>Learning outcomes</b>	<b>Measures</b>
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:**

<b>Date</b>	<b>Project, Quiz, Discussion</b>	<b>Due Date</b>
Jun 6th Weeks 1-2	<ul style="list-style-type: none"> <li>• Read Chapters 1-2</li> <li>• Group-Case-1</li> <li>• Go to D2L for taking group Cases (under Drop box)</li> <li>• Discussion on D2L</li> <li>• Go to D2L for taking quizzes (q1-q2)</li> </ul>	Jun 20th
Jun 20th Weeks 3-	<ul style="list-style-type: none"> <li>• Read Chapter-3 + Case-2</li> <li>• Go to D2L for taking Group Cases (under Drop box)</li> <li>• Discussion on D2L</li> <li>• Go to D2L for taking quiz (q3)</li> </ul>	Jun 27th
Jun 27 <sup>th</sup> Week 4	<ul style="list-style-type: none"> <li>• Read Chapter-4 + Case-3</li> <li>• Go to D2L for taking Group Cases (under Drop box)</li> <li>• Discussion on D2L</li> <li>• Define your group research project title and email it to me</li> <li>• Go to D2L for taking quizzes (q4)</li> </ul>	July 4th
Jul 4 <sup>th</sup> Week 5	<ul style="list-style-type: none"> <li>• Read Chapter-5 + Case-4</li> <li>• Go to D2L for taking Group Cases (under Drop box)</li> <li>• Discussion on D2L</li> <li>• Go to D2L for taking quizzes (q5)</li> </ul>	July 11 <sup>th</sup>
Jul 11 <sup>th</sup> Week 6	<ul style="list-style-type: none"> <li>• Read Chapter 6+ Case-5</li> <li>• Go to D2L for taking Group Cases (under Drop box)</li> <li>• Discussion on D2L</li> <li>• Go to D2L for taking quizzes (q6)</li> </ul>	Jul 17th
Jul 17 <sup>th</sup> Week 7	<ul style="list-style-type: none"> <li>• Read Chapter-7 + Case-6</li> <li>• Go to D2L for taking Group Cases (under Drop box)</li> <li>• Discussion on D2L</li> <li>• Go to D2L for taking quizzes (q7)</li> </ul>	Jul 24th
Jul 24 <sup>st</sup> Week 8 <b>Final Week</b>	<p>Review all chapters, and quizzes</p> <ul style="list-style-type: none"> <li>• Take Final Exam, on D2L, under the quizzes option.</li> </ul> <p style="text-align: center;"><b>End</b></p>	Jul 29th

**GRADING POLICY:**

<b><u>Total Points</u></b>	<b><u>100%</u></b>
Group Cases	35%
Quizzes	10%
Final Exam	35%
Discussion + individual questions + participation	20%
<b><u>Range</u></b>	<b><u>Grade</u></b>
90+ %	A
80+ %	B
70+ %	C
60+ %	D
<60 %	F

**Sample grading system:**

**Sample -**

	<b>35%</b>					<b>10%</b>					<b>35%</b>	<b>20%</b>	<b>100%</b>		
Name	PRJ-1	P-2	P-3	P-4	p-5	Ave	q-1	q-2	q-3	q-4	q-5	Ave	F- E	Dis + Pres	T-G
	30	30	25	30	25	<b>28</b>	10	8	10	8	10	<b>9.2</b>	<b>40</b>	<b>15</b>	<b>93</b>

**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

**Rubric for Cases projects (grading):**

Factors	Grade	Grade-for content	Obtain Grade
Cover page	1	2	3
Introduction	4	4	8
State problem	4	4	8
Questions + answers	4	4	8
Conclusions	4	4	8
Total			35

*-Not respecting the above format will cause losing points.*

-Cases must be submitted before deadline. **Zero grade for submitting after deadline.**

**Defining group members:**

On the first day of class, I shall define the group members and let you know via D2L.

**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.

## **The Department of Business Administration Mission:**

Educate students through a learning-centered environment.

To achieve its mission, the Department of Business Administration has adopted the following broad-based, student learning goal:

Graduates will be prepared for entry into careers in business and for contributions to their global and local communities.

In addition, the Department of Business Administration has adopted the following program-level student learning outcomes (*starred outcomes are a focus of this course*):

1. Graduates will attain higher learning in the field of business.
2. \*\*Graduates will demonstrate information literacy.
3. \*\*Graduates will demonstrate ability to use practical business tools.
4. Graduates will demonstrate good communication skills and ability to work effectively as part of a team.
5. Graduates will demonstrate the ability to analyze complex business situations in a realistic business environment.

## **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!**