

Course	ITM 5400 59 – Systems Analysis, Design, and Implementation
Term	Fall 2, 2009, Thursday 6 – 10 pm, Ft Sam Houston, TX
Instructor	Name: Linda H Peterson Cell: (210) 827-3253 Home: (210) 641-7516 Email: lindapeterson58@webster.edu
Catalog Description	This course covers the spectrum of activities in information systems life cycle management. The life cycle from the feasibility study through implementation and maintenance is examined. The course includes examination of structured analysis and design, prototyping, procurement and conversion methods. The roles and responsibilities of various personnel involved, as well as the communication and documentation tools and techniques employed, are studied.
Prerequisites	ITM 5000 – Information Technology Management - Overview
Course Level Learning Outcomes	After completing this course, students will: <ul style="list-style-type: none"> • know and explain the important technical terminology, concepts, principles, techniques, and theories related to the technical aspects of information and communications systems analysis, design, and implementation. • be able to <i>effectively apply important technical</i> concepts, principles, practices, techniques, and theories needed <i>to critically analyze</i> an organization’s information and communication requirements. • be able to <i>effectively apply important technical</i> concepts, principles, practices, techniques, and theories needed <i>to design and recommend appropriate systems solutions</i>. • be able to <i>effectively apply important technical</i> concepts, principles, practices, techniques, and theories needed <i>to manage the implementation of recommended systems solutions</i>.
Materials	REQUIRED TEXT(S) Title: <i>Systems Analysis & Design Methods</i> , 7th edition Authors: Whitten and Bentley Publisher: McGraw-Hill ISBN: 007-305233-7, Title: <i>Publication Manual of the American Psychological Association</i> , 6 th edition Publisher: American Psychological Association ISBN: 1-4338-0561-8 / or 978-1-4338-0561-5

	<p>NOT Required but of interest <i>Facts and Fallacies of Software Engineering</i>, Glass, ISBN: 0-32-111742-5 <i>Don't Make Me Think: A Common Sense Approach to Web Usability</i>, Krug, ISBN: 0-321-34475-8 <i>The Deadline: A Novel about Project Management</i>, De Marco, ISBN: 0-932633-39-0 <i>Why Software Sucks and What You Can Do About It</i>, Platt, ISBN: 0-321-46675-8 <i>Herding Cats: A Primer for Programmers Who Lead Programmers</i>, Rainwater, ISBN: 1-590-59027-2 <i>Beyond Chaos: The Expert Edge in Managing Software Development</i>, Constantine, ISBN: 0-201-71960-6</p> <p>SUPPLEMENTAL MATERIAL; Selected documents and/or articles that are relevant to lecture, discussion, or research activities may be provided or assigned throughout the term. A selected booklist may also be provided for optional outside reference.</p>																																				
<p>Grading</p>	<table border="1" data-bbox="479 892 1437 1312"> <tr> <td>Term Project/Presentation</td> <td>250 Points</td> </tr> <tr> <td> Proposal</td> <td>25 points</td> </tr> <tr> <td> Outline</td> <td>25 points</td> </tr> <tr> <td> Paper</td> <td>100 points</td> </tr> <tr> <td> PowerPoint Slides</td> <td>25 points</td> </tr> <tr> <td> In Class Presentation</td> <td>75 points</td> </tr> <tr> <td>Case Study</td> <td>150 points</td> </tr> <tr> <td>Mid-term Exam</td> <td>250 points</td> </tr> <tr> <td>Final Exam</td> <td>250 points</td> </tr> <tr> <td>Class Participation/Exercises</td> <td>100 points</td> </tr> <tr> <td>Total</td> <td>1000 points</td> </tr> </table> <p>Grading:</p> <table border="1" data-bbox="479 1375 1437 1648"> <tr> <td>A</td> <td>925 – 1000 points</td> </tr> <tr> <td>A-</td> <td>900 – 924 points</td> </tr> <tr> <td>B+</td> <td>875 – 899 points</td> </tr> <tr> <td>B</td> <td>825 – 874 points</td> </tr> <tr> <td>B-</td> <td>800 – 824 points</td> </tr> <tr> <td>C</td> <td>700 – 799 points</td> </tr> <tr> <td>F</td> <td>Below 700 points</td> </tr> </table> <p>Students taking a Incomplete can expect a grade no higher than a "B"</p>	Term Project/Presentation	250 Points	Proposal	25 points	Outline	25 points	Paper	100 points	PowerPoint Slides	25 points	In Class Presentation	75 points	Case Study	150 points	Mid-term Exam	250 points	Final Exam	250 points	Class Participation/Exercises	100 points	Total	1000 points	A	925 – 1000 points	A-	900 – 924 points	B+	875 – 899 points	B	825 – 874 points	B-	800 – 824 points	C	700 – 799 points	F	Below 700 points
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<p>Activities</p>	<ul style="list-style-type: none"> • Short lectures • Facilitated discussion of assigned readings • Short, moderately complex cases and exercises • Term (research) paper 																																				

	<ul style="list-style-type: none"> • Case Study • Midterm and final exams
<p>Policy Statements:</p> <p>University Policies</p>	<p>University policies are provided in the current course catalog and course schedules. They are also available on the university website. This class is governed by the university's published policies. The following policies are of particular interest:</p> <p>Academic Honesty</p> <p>The university is committed to high standards of academic honesty. Students will be held responsible for violations of these standards. Please refer to the university's academic honesty policies for a definition of academic dishonesty and potential disciplinary actions associated with it.</p> <p>Drops and Withdrawals</p> <p>Please be aware that, should you choose to drop or withdraw from this course, the date on which you notify the university of your decision will determine the amount of tuition refund you receive. Please refer to the university policies on drops and withdrawals (published elsewhere) to find out what the deadlines are for dropping a course with a full refund and for withdrawing from a course with a partial refund.</p> <p>Special Services</p> <p>If you have registered as a student with a documented disability and are entitled to classroom or testing accommodations, please inform the instructor at the beginning of the course of the accommodations you will require in this class so that these can be provided.</p> <p>Disturbances</p> <p>Since every student is entitled to full participation in class without interruption, disruption of class by inconsiderate behavior is not acceptable. Students are expected to treat the instructor and other students with dignity and respect, especially in cases where a diversity of opinion arises. Students who engage in disruptive behavior are subject to disciplinary action, including removal from the course.</p> <p>Student Assignments Retained</p> <p>From time to time, student assignments or projects will be retained by The Department for the purpose of academic assessment. In every case, should the assignment or project be shared outside the academic Department, the student's name and all identifying information about that student will be redacted from the assignment or project.</p> <p>Contact Hours for this Course</p> <p>It is essential that all classes meet for the full instructional time as scheduled. A class cannot be shortened in length. If a class session is cancelled for any reason, it must be rescheduled.</p>

<p>Course Policies</p>	<p>Attendance at all class sessions is expected. All sessions meet for four hours. All students are expected to do 10 hours of outside study and preparation for each class session.</p> <p>Late assignments will be accepted if prior arrangements have been made with the instructor, but will be given reduced points based upon the number of class sessions it is late.</p> <p>This course will require use of the Webster On-Line Classroom and the Webster On-Line Passports Library. It is the responsibility of the student to make sure that they have access to the Classroom and the Library before the start of class.</p> <p>All assignments will be submitted electronically as Microsoft Office 2003 documents via the electronic classroom. Documents not in Office 2003 format will not be converted and will be considered late when they are resubmitted.</p> <p>All papers will be formatted using the APA, 6th edition formatting guidelines. This includes the cover page and reference page. Papers longer than 10 pages (excluding the cover page and references) will also include an abstract page (not counted in page total). Papers may be submitted by the instructor for automated plagiarism checking.</p> <p>Additional articles may be assigned for reading using the online classroom. Links or PDFs for the required articles will be available in the electronic classroom.</p>
<p>Weekly Schedule</p>	<p>Topical Outline</p> <p>Pre-Assignment for Week 1</p> <ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Chapter 1: The Context of Systems Analysis and Design ○ Chapter 2: Information Systems Building Blocks • Check that you have access to the Webster On-line Classroom and the Webster Passport Library. Access to both will be required during the first class, • Think about a tentative topic for term paper <hr style="border-top: 1px dashed black;"/> <p>Week 1</p> <ul style="list-style-type: none"> • Class Introduction • Chapter 1: Context of Systems Analysis and Design Methods • Chapter 2: Information Systems Building Blocks

- Discussion of topics for term paper
- Exercise using Online Classroom and Library

Assignment for Week 2

- Read
 - Chapter 3: Information Systems Development
 - Chapter 4: Project Management
 - Assigned articles in online classroom
- Select term paper topic and write proposal
- Research a professional association in your field and submit write up through online classroom.

Week 2

- Chapter 3: Information Systems Development
- Chapter 4: Project Management
- Discussion of professional associations
- Discuss term paper proposals
- Quiz – Chapters 1-4

Assignment for Week 3

- Read
 - Chapter 5: Systems Analysis
 - Chapter 6: Fact-Finding Techniques for Requirements Discovery
 - Assigned articles in online classroom
- Submit written proposal for term paper no later than Monday (see Additional Information for requirements for proposal)

Week 3

- Chapter 5: Systems Analysis
- Chapter 6: Fact-finding Techniques for Requirements Discovery
- Discussion of assigned articles
- Approval of term paper topics
- Start working on group case study

Assignment for Week 4:

- Read
 - Chapter 7: Modeling System Requirements with Use Cases
 - Chapter 8: Data Modeling and Analysis
 - Chapter 9: Process Modeling
 - Assigned articles in online classroom
 - Develop Outline for term paper (see Additional Information for requirements for outline)
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Week 4

- Chapter 7: Modeling System Requirements with Use Cases
- Chapter 8: Data Modeling and Analysis
- Chapter 9: Process Modeling
- Discussion of assigned articles
- Continue work on group case study

Assignment for Week 5:

- Study for Midterm Exam covering Chapters 1 – 9, lectures, and assigned readings
 - Turn in Term Paper Outline no later than Monday
 - Read
 - Chapter 10: Object-Oriented Analysis and Modeling Using UML
 - Chapter 11: Feasibility Analysis and the Systems Proposal
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Week 5

- Chapter 10: Object-Oriented Analysis and Modeling Using UML
- Chapter 11: Feasibility Analysis and the Systems Proposal
- Continue work on group case study
- Midterm Exam

Assignment for Week 6:

- Read
 - Chapter 12: Systems Design

- Chapter 13: Application Architecture and Modeling
 - Chapter 14: Database Design
 - Assigned article in online classroom
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Week 6

- Chapter 12: Systems Design
- Chapter 13: Application Architecture and Modeling
- Chapter 14: Database Design
- Discussion of assigned articles
- Continue work on group case study

Assignment for Week 7:

- Read:
 - Chapter 15: Output Design and Prototyping
 - Chapter 19: Systems Construction and Implementation
 - Chapter 20: Systems Operation and Support
 - Assigned articles in online classroom
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Week 7

- Chapter 15: Output Design and Prototyping
- Chapter 19: Systems Construction and Implementation
- Chapter 20: Systems Operation and Support
- Discussion of assigned articles
- Continue work on group case study

Assignment for Week 8

- Complete written Term Paper and PowerPoint presentation. Term Paper and PowerPoint presentation must be submitted no later than Monday.
 - Read
 - Assigned articles in online classroom
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	<p>Week 8</p> <ul style="list-style-type: none"> • Student presentation of term papers • Completion of group case study <p>Assignment for Week 9</p> <ul style="list-style-type: none"> • Study for Final Exam covering all chapters and assigned readings <hr/> <p>Week 9 Comprehensive Final Examination</p> <ul style="list-style-type: none"> • Student presentation of term papers (if needed) • Final Exam covering all chapters, lectures and assigned readings
<p>Additional Information</p>	<p><i>There will be no class on Thursday, November 26th in observance of Thanksgivings Day. The make up class will be announced during the beginning of the term.</i></p> <p>General Information</p> <ul style="list-style-type: none"> • All written assignments will use APA formatting. NOTE – the Microsoft Pug-in for MS Word does not do the formatting properly. If you use this, please review and correct the formatting based on the APA manual. A sample paper in APA format is available through the online classroom • References used in the papers should be current (no earlier than 01/01/2000) unless they are seminal references for the profession. • Wikipedia is a good way to get information about a topic but it is not a valid source for a term paper. You can use it to find topics of interest. • Online sources can be used however; you do need to be aware of the validity of the source. For example, a reference from the American Medical Association is appropriate for a paper but a reference from John Doe's blog may not carry the same level of validity. • Do not use the same web site for several references. Your paper will have more validity if you can locate the same information through several references. Also, you should be sure to look for opposing points of view when appropriate. <p>Term Paper</p> <ul style="list-style-type: none"> • This assignment will be submitted no later than Monday before the Week 8 class. • This is an individual project. Each student will select a topic related to systems analysis and design and research this topic.

- Proposed topics will be discussed during Week 1. Each student will select a topic and develop a written proposal for the research. Refer to the Term Paper Proposal for requirements for this assignment.
- The term paper should be between 10 and 12 pages (**excluding the cover page, abstract, and references**) and must be in APA format.
- The term paper must have a minimum of 8 references excluding the textbook. You may have more if needed. **At least half** of these references must come from the Webster Passport Library.
- A PowerPoint Presentation must be developed from this paper for presentation to the class. Refer to the Term Paper Presentation for requirements for this assignment.

Term Paper Proposal

- This assignment will be submitted no later than Monday before the Week 3 class.
- The proposal should be approximately one page and will describe the proposed topic **and how it relates to the class material**.
- A minimum of two references (excluding the textbook) must be included in the proposal. One of these references must be from the Webster Passport Library.
- References must be in APA format.

Term Paper Outline

- This assignment will be submitted no later than Monday before the Week 5 class.
- The outline should cover the main ideas that will be covered in the term paper. It should show the organization of the paper.
- A minimum of five references (may include the textbook) must be provided with the outline. Two of these references must be from the Webster Passport Library.
- References must be in APA format.

Term Paper Presentation

- This assignment will be submitted with the Term Paper through the online classroom no later than Monday before the Week 8 class.
- Each student will develop a PowerPoint presentation covering their research.
- The presentation should last 10 – 15 minutes.
- The presentation will be delivered during the Week 8 class period.

	<p>If presentations are not completed during this class, they will be continued during Week 9's class.</p> <p>Case Study</p> <ul style="list-style-type: none">• This assignment will be an ongoing project for the whole class. It will involve doing a variety of assignments in class related to the analysis and design of a business application.
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