

Course	ITM 5400 / JC / Systems Analysis, Design, and Implementation
Term	Fall 2, 2009 – Thursday – 6:00 pm – 10:00 pm 10/26 (Monday), 10/29, 11/5, 11/12, 11/19, 12/3, 12/10, 12/17 (Make-up date for Thanksgiving TBD)
Instructor	Name: Thomas Jakubowski Home: (904) 260-7540 Work: (904) 636-2751 Email: tjakubow@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 effectively apply important technical concepts, principles, practices, techniques, and theories needed to manage the implementation of recommended systems solutions.
Materials	Whitten, J.L. and Bentley L.D. (2007). Systems Analysis and Design Methods . (7th Edition). McGraw-Hill Irwin. ISBN# 0-07-305233-7 To Order Textbooks go to the local North FL website www.webster.edu/jack and click on Order Textbooks to select a

	<p style="text-align: center;">vendor</p> <p style="text-align: center;">(Note: Textbooks must be ordered 2 weeks prior to class to ensure delivery)</p> <p>Supplemental Reading: <u>Research Paper Guidelines and Sample Paper</u> – See website @ www.webster.edu/jack and click on the Student Resources category.</p> <p>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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Assignments</th> <th style="text-align: right;">Maximum Points</th> </tr> </thead> <tbody> <tr> <td>• Term Project Case Study Deliverables (Drafts, Design Documents, Presentation)</td> <td style="text-align: right;">50 Points</td> </tr> <tr> <td>• Labs</td> <td style="text-align: right;">5 Points</td> </tr> <tr> <td>• Quizzes (3 @ 12 Points each)</td> <td style="text-align: right;">36 Points</td> </tr> <tr> <td>• Class Participation and Attendance</td> <td style="text-align: right;"><u>9 Points</u></td> </tr> <tr> <td>TOTAL</td> <td style="text-align: right;">100 Points</td> </tr> </tbody> </table> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Percentage of Total Points</th> <th style="text-align: left;">Grade</th> </tr> </thead> <tbody> <tr> <td>95%-100%</td> <td>A</td> </tr> <tr> <td>90%-94%</td> <td>A-</td> </tr> <tr> <td>88%-89%</td> <td>B+</td> </tr> <tr> <td>84%-87%</td> <td>B</td> </tr> <tr> <td>80%-83%</td> <td>B-</td> </tr> <tr> <td>70%-79%</td> <td>C</td> </tr> <tr> <td>Below 70%</td> <td>F</td> </tr> </tbody> </table>	Assignments	Maximum Points	• Term Project Case Study Deliverables (Drafts, Design Documents, Presentation)	50 Points	• Labs	5 Points	• Quizzes (3 @ 12 Points each)	36 Points	• Class Participation and Attendance	<u>9 Points</u>	TOTAL	100 Points	Percentage of Total Points	Grade	95%-100%	A	90%-94%	A-	88%-89%	B+	84%-87%	B	80%-83%	B-	70%-79%	C	Below 70%	F
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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 • Case Deliverables • Group Project • Quizzes 																												

Quizzes:

- Short Quizzes will be given at the beginning of sessions 3, 5, and 9

Term Project / Case Study and Final Presentation:

- Each student will perform four individual assignments which are components of a broader case study solution, involving Systems Analysis, Design, and Implementation.
- Each assignment will target specific aspects of course material in a way that provides hands-on exposure to each solution component.
- Analysis and Design Solution Deliverables will be due on several different milestone dates throughout the term, as announced during Session 2
- Each student is asked to provide Peer Review of solution components delivered by other students
- Each student will present a 20 minute presentation outlining their specific deliverables for the overall case study.
- Electronic and hard copies of the presentation and project documentation will be provided to the instructor and all other students during the final session
- Perfect spelling and grammar are assumed and expected, at the graduate level.

Class Participation and Attendance:

- Students are expected to attend all class sessions of every course for the full 36 contact hours. In the case of unavoidable absence, the student must contact the instructor. The student is subject to appropriate academic penalty for incomplete or unacceptable makeup work, or for excessive or unexcused absences. Generally, a student who misses more than one four-hour course period (per course) without a documented military or medical excuse and advanced permission of the instructor should withdraw from the class. The University reserves the right to involuntarily drop enrolled students from classes, which they do not attend. **PLEASE BE ADVISED:** Students who do not attend the first class session, who have not made prior arrangements with the instructor for being absent, will be dropped from their courses.
- Attendance the last day of class is mandatory to ensure that all work is completed and to be awarded a passing grade. An Incomplete will not be acceptable without documental proof (Death Notice, Doctor's Letter, etc.) as to absence relating to non-completion of class work. These must be faxed 904-262-1459 or dropped off to Webster University by the Monday after the term ends.
- Participants are expected to arrive on time and be actively involved in the learning experience. Each student should desire to learn, participate, and proactively contribute to the learning of others during each discussion and exercise.

	<ul style="list-style-type: none"> • Students are to participate in classroom discussions. The discussions are an opportunity for students to reveal their understanding of the assignments made for the current and previous classes. • Assignments are given to prepare the student to participate in class discussions; therefore, it is imperative that reading assignments and associated questions for discussion be completed prior to class. • A maximum of 10 points will be awarded based on the level and quality of participation and preparation. • Failure to turn in an assignment within one week will result in a grade of "0" for that assignment. In addition, failure to submit an assignment will lower the final grade by an additional two points. • All assignments are due as detailed in the Course Schedule. • Late assignments will be accepted, if they are turned in <i>no later</i> than one week later, but will be penalized one letter grade. Furthermore, late assignments will lower the student's final grade by an additional one point. • Late assignments will not be accepted for the final assignments the last week of the course to allow timely completion and grades to be submitted.
<p>Policy Statements: 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</p>

	<p>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.</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>

Weekly Schedule		Pre-Assignments for Session 1: <ul style="list-style-type: none"> • Read Chapters 1, 2, and 3 of the text
	Session 1	THEME: Introduction to Systems Analysis Topics: <ul style="list-style-type: none"> • System Development Context & Life Cycle • Systems Analysis and Design Methods • Information System Building Blocks • Information Systems Development Assignments for Session 2: <ul style="list-style-type: none"> • Read Chapters 5 and 6 of the Text
	Session 2	THEME: System Selection and Requirements Topics: <ul style="list-style-type: none"> • Analysis Phases and Approaches • Requirements Discovery and Fact Finding • Methods for Determining Requirements Assignments for Session 3: <ul style="list-style-type: none"> • Case Study Assignment 1 • Read Chapters 7 and 10 of the Text
	Session 3	THEME: System Modeling, Part 1 Topics: <ul style="list-style-type: none"> • Quiz 1 • Use Cases • Unified Modeling Language • Object Oriented Analysis and Modeling Assignments for Session 4: <ul style="list-style-type: none"> • Case Study Assignment 2 Drafts • Read Chapters 8 and 9 of the Text
	Session 4	THEME: System Modeling, Part 2 Topics: <ul style="list-style-type: none"> • Process Modeling • Data Modeling Assignments for Session 5: <ul style="list-style-type: none"> • Case Study Assignment 2 (Final) • Read Chapters 11 and 12 of the Text

	Session 5	<p>THEME: System Design Approaches</p> <p>Topics:</p> <ul style="list-style-type: none"> • Quiz 2 • Feasibility and Alternatives • Design Approaches for “Build” Solution • Design Approaches for “Buy” Solution • Integration of “Build” and “Buy” design components <p>Assignments for Session 6:</p> <ul style="list-style-type: none"> • Case Study Assignment 3 Drafts • Read Chapters 14, 15, and 16 of the Text
	Session 6	<p>THEME: System Architecture and Design, p.1</p> <p>Topics:</p> <ul style="list-style-type: none"> • Application Architecture Strategy • Database Design • Output Design <p>Assignments for Session 7:</p> <ul style="list-style-type: none"> • Case Study Assignment 3 (Final) • Read Chapters 16, 17, and 18 of the Text
	Session 7	<p>THEME: System Design, p.2</p> <p>Topics:</p> <ul style="list-style-type: none"> • Object Oriented Design and Modeling with UML • User Interface Design and Usability • Input Design <p>Assignments for Session 8:</p> <ul style="list-style-type: none"> • Case Study Assignment 4 • Read Chapters 19 and 20 of the Text
	Session 8	<p>THEME: System Implementation</p> <p>Topics:</p> <ul style="list-style-type: none"> • System Construction and Implementation • System Operations and Support <p>Assignments for Session 9:</p> <ul style="list-style-type: none"> • Case Study Assignment 5 • Prepare Presentation
	Session 9	<p>THEME: Review and Wrap-Up</p> <p>Topics:</p> <ul style="list-style-type: none"> • Quiz 3 • Term Project Presentations

Additional Information	None
Reviewed by: <u> <i>J. Ewing</i> </u>	
Job Title: <u> Faculty Coordinator </u>	
Date: <u> 02/13/09 </u>	

Revised 02/09/09