

<b>Course</b>	ITM 5400 System Analysis, Design, and Implementation								
<b>Term</b>	Spring I 2010 Scott AFB Campus								
<b>Instructor</b>	Name: Mike Smith Phone: 624-6233 Email: wmsmith@webster.edu								
<b>Catalog Description</b>	This course is designed to cover the complete spectrum of activities in the system's life cycle. The life cycle is examined from the feasibility study through the implementation and maintenance phase. The course includes examination of structured analysis and design, prototyping, and conversion methods. The roles and missions of the various personnel involved in the life cycle are studied, as well as the communication and documentation tools employed.								
<b>Prerequisites</b>	<ul style="list-style-type: none"> <li>· Students should have oral and written skills commensurate with graduate level requirements.</li> <li>· Students should have completed COMP 5000.</li> </ul>								
<b>Course Level Learning Outcomes</b>	<p>At the conclusion of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>· Explain the use of automated information systems in meeting organizational goals and objectives.</li> <li>· Discuss manager's responsibilities for analysis, design, implementation, and continued life cycle support of an information system.</li> <li>· Explain the key steps in the systems development life cycle, and know when, why, and how they should be applied.</li> <li>· Use some basic systems and project management techniques and tools for problem analysis, and know when they should be applied.</li> </ul>								
<b>Materials</b>	Systems Analysis & Design Methods, 7th Edition, by Whitten & Bentley; Publisher: Irwin/McGraw-Hill. ISBN10: 978-0-07-305233-5								
<b>Grading</b>	<p>Each item completed will be assigned the appropriate weight as indicated. The final grade will be the sum of the weighted total. Total participant points are based on attendance, class preparation, and class participation.</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">ITEM</th> <th style="text-align: left;">POINTS</th> </tr> </thead> <tbody> <tr> <td>· Exam #1</td> <td>25</td> </tr> <tr> <td>· Exam #2</td> <td>25</td> </tr> <tr> <td>· Class Participation</td> <td>10</td> </tr> </tbody> </table>	ITEM	POINTS	· Exam #1	25	· Exam #2	25	· Class Participation	10
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	<ul style="list-style-type: none"> <li>· Project</li> <li>· · Oral Presentation 10</li> <li>· · Written Report 30</li> </ul>
<b>Activities</b>	<p>RESEARCH REQUIREMENT: The oral and written reports may be researched, developed, and presented as an individual or group project. If completed as a group project, each member of the group will receive the same grade for the project.</p> <p>The report may be based on any subject matter discussed in class and approved by the instructor. You may use as many sources as you require to complete an effective and thorough analysis for your project; however, you must have a minimum of three sources.</p> <p>The oral presentation will be given at the end of the course (see class schedule). The presentation will last at least 10-15 minutes (depending on class size), and will be followed by a brief time for questions and answers. Be sure the oral report includes your own conclusions and assessments of the information uncovered during your research, lessons learned, etc. Each member of the group will participate in the oral presentation. The presentation will include professionally developed visual aids (transparencies, computer generated graphics, etc.). Please advise the instructor of the technical support requirements (overhead projector, etc.) no later than one week prior to the presentation.</p> <p>Prior to the presentation, provide an outline of the presentation (a 1 page talking paper). This talking paper will be included in your written report (see below). The oral report is worth 10% of your total grade.</p> <p>A written report will be submitted not later than the last class meeting. The report will contain an outline of the presentation (the 1 page talking paper), discussion of the analysis and design (10-15 pages), a list of sources (minimum of 3), and any additional support or other types of information not presented to the class. If the report is a group effort, each group member is expected to contribute their “fair share” in the development of the report. The written report is worth 30% of your total grade.</p>
<b>Policy Statements: University Policies</b>	<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><b>Academic Honesty</b></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</p>

	<p>academic dishonesty and potential disciplinary actions associated with it.</p> <p><b>Drops and Withdrawals</b> 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><b>Special Services</b> 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><b>Disturbances</b> 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><b>Student Assignments Retained</b> 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><b>Contact Hours for this Course</b> 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>
<b>Course Policies</b>	None
<b>Weekly Schedule</b>	<p>Week 1      Introduction / Orientation / Course Overview  Discussion: Chapters 1 and 2  Group Work: Project Requirements  Introduction to group problem</p>

	<p>Week 2      System Development and Project Management  Discussion: Chapters 3 and 4  Group Work: Zachman Framework  Group problem</p> <p>Week 3      System Analysis and Requirements Discovery  Discussion: Chapters 5 and 6  Group Work: Kepner-Trego Methodology  Methodology comparisons  Group problem  Assignment: Turn in draft scope of the project</p> <p>Week 4      Use Cases and Data Modeling  Discussion: Chapters 7 and 8  Group Work: Group problem data model  Assignment: Turn in EXAM #1</p> <p>Week 5      Use Cases and Process Modeling  Discussion: Chapters 7 and 9  Group Work: Process Flow Modeling  IDEF Process Modeling  Group problem process model</p> <p>Week 6      OO Modeling and Feasibility Analysis  Discussion: Chapters 11 and 12  Group Work: Scenarios and Use Cases  Group problem</p> <p>Week 7      System Design, Architecture, and OO Design  Discussion: Chapters 10, 13, and 18  Group Work: Group problem</p> <p>Week 8      Input and Output Design  Discussion: Chapters 15, 16, and 17  Assignment: Turn in EXAM #2</p> <p>Week 9      PROJECT PRESENTATIONS  Assignment: All assignments are due.</p>
<b>Additional Information</b>	None