


<b>Course</b>	<b>ITM 5400/71 – Systems Analysis, Design, and Implementation</b>
<b>Term</b>	Summer, May 31 to August 1, 2008
<b>Instructor</b>	Dr. Joanna Bass Phone: 321-984-5815 Email: <a href="mailto:jbass@harris.com">jbass@harris.com</a> Office hours: Available after class
<b>Catalog Description</b>	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.
<b>Prerequisite</b>	There are no prerequisites for this course. However it is recommended that the student take ITM 5000 – Information Technology Management – Overview before enrolling in this course.
<b>Course Level Learning Outcomes</b>	After completing this course, students will: <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• 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>.</li> <li>• be able to effectively apply important technical concepts, principles, practices, techniques, and theories needed to manage the implementation of recommended systems solutions.</li> </ul>

<p><b>Materials</b></p>	 <p><b>REQUIRED TEXT:</b></p> <p><i>Introduction to Systems Analysis &amp; Design</i>, 1<sup>st</sup> Ed, December 4, 2006, Whitten and Bentley, ISBN-10: 007340294X or ISBN-13: 9780073402949</p> <p><b>SUPPLEMENTAL READINGS:</b> Articles describing Systems Analysis and Design pertaining to developing information systems that cover the spectrum of activities in the information systems life cycle management will be brought to class each week for discussion of related trends and activities. Sources of articles are contained in technical magazines, newspapers, business publications, the Internet, other textbooks, and professional journals.</p>																																
<p><b>Grading</b></p>	<p>Taking a numerical score range and converting it to the appropriate letter grade, grading for the course is as follows:</p> <table border="1" data-bbox="659 957 1175 1425"> <thead> <tr> <th>Letter Grade</th> <th>Numerical Score</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>96-100% (4.0)</td> </tr> <tr> <td>A-</td> <td>91-95% (3.67)</td> </tr> <tr> <td>B+</td> <td>87-90% (3.33)</td> </tr> <tr> <td>B</td> <td>82-86% (3.0)</td> </tr> <tr> <td>B-</td> <td>78-81% (2.67)</td> </tr> <tr> <td>C</td> <td>70-77% (2.0)</td> </tr> <tr> <td>F</td> <td>69 &amp; below (0)</td> </tr> <tr> <td>I</td> <td>Incomplete (0)</td> </tr> <tr> <td>W</td> <td>Withdrew</td> </tr> </tbody> </table> <p>Your course grade will be based on your scores from your class participation/facilitation, examinations, research paper, and your contribution of supplemental reading for class discussions. These different components will be weighted as follows:</p> <table border="1" data-bbox="488 1650 1347 1927"> <thead> <tr> <th>COURSE REQUIREMENTS:</th> <th>% OF GRADE</th> </tr> </thead> <tbody> <tr> <td>a. Midterm Examination</td> <td>10%</td> </tr> <tr> <td>b. Final Examination</td> <td>10%</td> </tr> <tr> <td>c. Homework &amp; Supplemental reading</td> <td>25%</td> </tr> <tr> <td>d. Class Participation/Facilitation</td> <td>25%</td> </tr> <tr> <td>e. Research Paper</td> <td>30%</td> </tr> </tbody> </table>	Letter Grade	Numerical Score	A	96-100% (4.0)	A-	91-95% (3.67)	B+	87-90% (3.33)	B	82-86% (3.0)	B-	78-81% (2.67)	C	70-77% (2.0)	F	69 & below (0)	I	Incomplete (0)	W	Withdrew	COURSE REQUIREMENTS:	% OF GRADE	a. Midterm Examination	10%	b. Final Examination	10%	c. Homework & Supplemental reading	25%	d. Class Participation/Facilitation	25%	e. Research Paper	30%
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**a. and b. Examination Requirements:** Examinations will be closed-book, of the essay category, covering the major topics presented in the text, supplemental material, and lecture/discussion topics.

**c. Homework and Supplemental Reading Requirements:** Homework questions are assigned according to the syllabus. The questions will be answered in a professional manner and will be preceded by a formal cover sheet in accordance with Webster Research Paper guidelines. Response may be copied from the book.

Students will be evaluated on their contribution of supplemental readings related to the weekly course subject matter. Weekly supplemental reading is required by each student to augment or counter course material. Supplements will be discussed as time permits and a copy of the selected readings will be handed in with homework assignments beginning Week 1 at the end of each class. Supplements will have a formal cover sheet and salient information will be highlighted in yellow. An Abstract of the article will be provided containing additional insight provided by the student about the supplemental reading or from personal experience.

If the student is not in class, homework must be submitted via e-mail on **the due date** to receive credit for the work. Email address for submission of absent-associated homework is shown on this syllabus

**d. Class Participation/Facilitation:** This class requires extensive reading and research conducted prior to each class. Students will be evaluated on their preparation, contribution, and facilitation of class discussions on weekly course subject matter. Absences from scheduled class sessions and failure to adequately prepare for discussions or class activities will result in a reduction of their score in this course requirement.

**e. Research Requirements:** Students will be required to complete a research paper which should be a minimum of 12 pages and a maximum of 15 pages of text, typed, double spaced, in accordance with the Webster University, Space Coast Campus, Guidelines for Writing a Research (Term) Paper in APA format. A PowerPoint presentation of the research topic will be prepared and presented to the class. The presentation will be informative to the students and prepared in a professional manner according to Webster guidelines for formal presentations.

The students will write a research paper on a topic related to Systems Analysis and Design, but that was not fully discussed in detail in the course. The students will submit one soft copy of the PowerPoint presentation and one hard copy of the research paper in accordance with this syllabus.

<p><b>Activities</b></p>	<p>This class will involve a combination of lecture and whole group and small group discussions. Students will see relevant applications to help them understand the conceptual frameworks and see how these ideas relate to the real world of organizations. Therefore, the use of supplemental readings and other vehicles to serve as points of the application of the weekly concepts and theoretical material presented in the book is a key activity.</p> <p>Because the ability to organize one’s thoughts and express them in clear and cogent prose is an important skill for the graduate student, a course term paper and presentation will be completed.</p>
<p><b>Policy Statements: University Policies</b></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><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 academic dishonesty and potential disciplinary actions associated with it.</p> <p><b>Drops and Withdrawals</b></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><b>Special Services</b></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><b>Disturbances</b></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>

<b>Course Policies</b>	Attendance at all class sessions is expected. Late weekly write-ups and written case 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.
<b>Week 1 Schedule</b>	<b>PREPARATION FOR CLASS:</b> Read Chapter 1 and Chapter 2. Complete homework assignment with appropriate article(s).  <b>CLASSROOM DISCUSSION TOPICS:</b> Overview of Systems Development Projects. Complete Review Questions Ch 1: 1, 2, 3, 4 Complete Review Questions Ch 2: 1, 6, 7, 9, 11 Find an article that mentions the context of systems analysis
<b>Week 2 Schedule</b>	<b>PREPARATION FOR CLASS:</b> Read Chapter 3, Chapter 4 and Chapter 5. Complete homework assignment with appropriate article(s).  <b>CLASSROOM DISCUSSION TOPICS:</b> Systems Analysis Methods Complete Review Questions Ch 3: 1, 4, 10 Complete Review Questions Ch 4: 1, 5, 11, 14 Complete Review Questions Ch 5: 1, 3, 6, 10
<b>Week 3 Schedule</b>	<b>PREPARATION FOR CLASS:</b> Read Chapter 6 and Chapter 7. Complete homework assignment with appropriate article(s).  <b>CLASSROOM DISCUSSION TOPICS:</b> Modeling Complete Review Questions Ch 6: 1, 2, 4, 6 Complete Review Questions Ch 7: 1, 2, 4, 6
<b>Week 4 Schedule</b>	<b>PREPARATION FOR CLASS:</b> Read Chapter 8 and Chapter 9. Complete homework assignment with appropriate article(s). <b>PREPARE FOR MID-TERM EXAM Chapters 1 through 9</b>  <b>CLASSROOM DISCUSSION TOPICS:</b> Modeling Complete Review Questions Ch 8: 2, 3, 5, 10 Complete Review Questions Ch 9: 1, 9, 11, 12
<b>Week 5 Schedule</b>	<b>PREPARATION FOR CLASS:</b> Read Chapters 10 and 11. Complete homework assignment with appropriate article(s). <b>MID-TERM EXAM Chapters 1 through 9</b>  <b>CLASSROOM DISCUSSION TOPICS:</b> <i>Mid-term Examination Chapters 1 through 9</i>

	<p>Complete Review Questions Ch 10: 1, 4, 7, 12, 13, 15  Complete Review Questions Ch 11: 1, 3, 5, 10</p>
<b>Week 6 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b>  Read Chapter 12 and Chapter 13. Complete homework assignment with appropriate article(s).</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b>  System Design Methods  Complete Review Questions Ch 12: 2, 5, 7, 10  Complete Review Questions Ch 13: 2, 3, 7, 11</p>
<b>Week 7 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b>  Read Chapter 14, Chapter 15, and Chapter 16. Complete homework assignment with appropriate article(s).</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b>  System Design Methods  Complete Review Questions Ch 14: 1, 2, 3, 12  Complete Review Questions Ch 15: 1, 2, 6, 7  Complete Review Questions Ch 16: 3, 5, 8, 10</p>
<b>Week 8 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b>  Read Chapter 17 and Chapter 18. Complete homework assignment with appropriate article(s).  <b>PREPARE FOR FINAL EXAM Chapters 10 through 16</b></p> <p><b>CLASSROOM DISCUSSION TOPICS:</b>  Complete Review Questions Ch 17: 1, 2, 4, 7  Complete Review Questions Ch 18: 2, 3, 4, 6  Instructor lecture on System Operation and Maintenance phase of the System Development Life Cycle</p>
<b>Week 9 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b>  Complete research papers and PowerPoint presentations</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b>  Required: Research papers given to instructor in hard copy  Required: PowerPoint presentations given to instructor in soft copy  <b>FINAL EXAM Chapters 10 through 16</b></p>
<b>Additional Information</b>	None

**PURCHASING TEXTBOOKS--**Most textbooks can be purchased through **MBS Direct**. Check the syllabus for textbook information. Give MBS Direct the campus location (for the purpose of ordering books the campus is **Space Coast Campus**, course name, number and section number (i.e. Space Coast Campus, COMP5000/64) and most important, the **title, author, edition, and ISBN** of the book you are ordering. MBS Direct will buy back your book at the end of the term

should you elect not to retain it as a reference book. Order by phone or online. Orders should be placed no earlier than 4 weeks prior to the start of the term.

**MBS Direct:** 1-800-325-3252

MBS Direct Website is [www.mbsdirect.net/webster](http://www.mbsdirect.net/webster)

Monday-Thursday 7am-10pm(Central Time)

Friday 7am-6pm (Central Time)

Saturday 8am-5pm (Central Time)

Sunday noon-4pm (Central Time)

In order to meet the course objectives this syllabus may be modified at the discretion of the instructor without approval of the students.

**Original approved by:**

Dr. Calvin D. Fowler Academic Dean Space Coast Region, March 19, 2008

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