THE UNIVERSITY OF TEXAS AT TYLER  
DEPARTMENT OF COMPUTER SCIENCE  
COSC 4375/ COSC 4395 – Information Systems Design Project/ Capstone Project  
Fall 2010

Instructor: Nary Subramanian, Ph.D.  
RBN 3010  
Email: nsubramanian@uttyler.edu

Lecture: TR 11.00 am to 12.15 pm RBN 3038

Office Hours: TR 9.30 am to 11.00 am


Course Description: Welcome to the capstone design project course in Information Systems! In this course you will put together all the knowledge from your previous courses to design and develop practical information systems. You will learn and use the FAST (Framework for the Application of Systems Thinking) framework for developing information systems. The framework will consider the people, process, business drivers, and the technology drivers needed to develop a successful information system. This course will teach the basics of information systems development, project management, JAD, RAD, UML, system requirements analysis, system design, system implementation, and maintenance. You will work on your capstone design project that will reinforce your understanding of the various concepts.

Grading: The grading for the project will be based on the work done and on the individual tests at the end of appropriate milestones. There will be two mid-term exams (their schedules are given later). The weightings are given below:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Exam I</td>
<td>15%</td>
</tr>
<tr>
<td>Exam II</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
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<tr>
<td>Project Work</td>
<td>25%</td>
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<tr>
<td>Project Test</td>
<td>15%</td>
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Grading Policy:

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>≥85</td>
<td>A</td>
</tr>
<tr>
<td>≥75, &lt; 85</td>
<td>B</td>
</tr>
<tr>
<td>≥65, &lt; 75</td>
<td>C</td>
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Student Learning Outcomes (SLO’s):
1. Learn the application of a systematic process for developing information systems.
2. Understand the basics of Project and Process Management.
3. Become conversant in the use of modern tools and techniques for developing software.
4. Create appropriate documents for requirements, functional design, implementation, and user training.
5. Develop an ability to work cooperatively to develop a high quality information system.

Relationship of SLO’s to Program Outcomes:
1. be prepared to contribute immediately as information systems professionals  (SLO’s 1,2,4, 5)/be able to use modern computational tools and techniques in the practice of computer science (SLO 3)
2. be able to design and implement information systems that satisfy user requirements (SLO’s 1, 2, 4, 5)/be able to perform analysis, design, implementation, testing, and maintenance of computer-based systems, stressing software engineering principles (SLO’s 1, 2, 4, 5)
3. demonstrate effective written, visual, and oral communication skills (SLO’s 4, 5)
4. be able to contribute effectively as members of systems/project development teams (SLO 5)

(for 4375 the program outcomes above are, respectively, those at numbers 1, 2, 4, and 6 of 2010-2012 Catalog; for 4395 the program outcomes above are, respectively, those at numbers 2, 5, 8, and 10 of 2010-2012 Catalog)

Tentative Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-2</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>2</td>
<td>3-4</td>
<td>FAST Framework and Project Management</td>
</tr>
<tr>
<td>3</td>
<td>5-6</td>
<td>Systems Analysis/Requirements Discovery</td>
</tr>
<tr>
<td>4</td>
<td>7-8-9</td>
<td>Requirements Modeling/Data Modeling/Process Modeling</td>
</tr>
<tr>
<td>5</td>
<td>10-11</td>
<td>Feasibility Analysis and OO Analysis</td>
</tr>
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EXAM I (Tuesday, 28th September, 2010)

7    | 12      | Systems Design                                               |
8    | 13      | Architecture Modeling                                        |
9    | 14-15-16| Database Design/Input Design/Output Design                    |
10   | 17      | User Interface Design                                        |
11   | 18      | OO Design                                                    |

EXAM II (Tuesday, 16th November, 2010)

13   | 19      | Systems Implementation                                       |
14   | 20      | Systems Operation and Support                                |
15   |         | Project Presentations                                        |

FINAL EXAM (Tuesday, December 14, 2010, 11 am to 1 pm)

12th day of class (Census Date): September 8, 2010

Attendance and Make-up Policy
It is in your interest to attend all classes. There will be no make-ups for missed exams/tests.

Students Rights and Responsibilities
To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www.uttyler.edu/wellness/StudentRightsandResponsibilities.html
**Grade Replacement/Forgiveness**
If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by the 12th day of class. Failure to do so will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates will receive grade forgiveness (grade replacement) for only three course repeats; graduates, for two course repeats during his/her career at UT Tyler.

**State-Mandated Course Drop Policy**
Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the 12th day of class (See Schedule of Classes for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Registrar's Office and must be accompanied by documentation of the extenuating circumstance. Please contact the Registrar's Office if you have any questions.

**Disability Services**
In accordance with federal law, a student requesting accommodation must provide documentation of his/her disability to the Disability Support Services counselor. If you have a disability, including a learning disability, for which you request an accommodation, please contact Ida MacDonald in the Disability Support Services office in UC 282, or call (903) 566-7079.

**Student Absence due to Religious Observance**
Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

**Student Absence for University-Sponsored Events and Activities**
If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

**Social Security and FERPA Statement**
It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

**Emergency Exits and Evacuation**
Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do Not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.