# COSC 4309 Syllabus

<table>
<thead>
<tr>
<th>Course Number:</th>
<th>COSC 4309</th>
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<tbody>
<tr>
<td>Course Title:</td>
<td>Design of Modern Information Systems</td>
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<tr>
<td>Course Description:</td>
<td>Introduction to prototyping and computer-aided software engineering. This course will provide a detailed study of advanced topics in information systems software including system libraries, database design, and distributed software. A complete information system will be developed from various software components.</td>
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<tr>
<td>Pre-requisites:</td>
<td>COSC 3310, COSC 1337/1137, COSC 3385.</td>
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<td>Credits:</td>
<td>3</td>
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<tr>
<td>Text(s):</td>
<td>ASP.NET 3.5 Web Programming with VB 2008 by Anne Boehm and Doug Lowe, Mike Murach &amp; Associates.</td>
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<td>Languages Used: (if applicable)</td>
<td>ASP.Net 3.5, Visual Basic, HTML</td>
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<td>Topics:</td>
<td>Introduction to Information Systems</td>
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<td>Introduction to ASP.NET Web Programming</td>
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<td></td>
<td>How to Develop a One-Page Web Application</td>
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<td>How to Develop a Multi-Page Web Application</td>
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<td>How to Work with Server Controls</td>
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<td>How to Use Validation Controls</td>
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<td>How to Manage State</td>
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<td></td>
<td>An Introduction to Database Programming</td>
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<td>How to Use SQL Data Sources</td>
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<td>How to Use GridView Control</td>
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<td>How to Use the Login Controls to Authenticate Users</td>
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### Evaluation Method: (only items in dark print apply)

<table>
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<tr>
<th>1. Examination/Quiz</th>
<th>2. Homework</th>
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<tbody>
<tr>
<td>5. Project</td>
<td>6. Presentation</td>
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<tr>
<td>7. Class Participation</td>
<td>8. Peer Review</td>
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</table>
### Course Objectives: By the end of this course students are expected to:

1. To develop skills in analysis, design, and development of application software using a programming environment [1,5,6]
2. To identify differences between a structured, event-driven, and object-oriented application design and explain the implications of these approaches to the design and development process [1,5,6]
3. To be able to develop program tests and system tests [5,6]
4. To understand the different programming environments available for business application development [1,5,6]
5. To develop a functional understanding of proactive principled behavior and time management [5]
6. To ensure attitudes necessary for successful team behavior including empathetic listening, consensus negotiation, conflict resolution, and synergistic solution finding, and to apply the concept of commitment and rigorous completion [5,6]
7. To ensure goal setting and alignment of team activities with project obligations [5,6]
8. To describe interactions with higher levels of management in selling project objectives and performing project management tasks [5,6]
9. To describe and explain life cycle concepts, and apply them to the course project [1,5,6]
10. To discuss and apply the concept of life-long learning [5,6]
11. To present and explain the evolving leadership role of information management in organizations [1,5,6]

1 Numbers in bracket refer to method(s) used to evaluate the course objective.

### Relationship to Program Outcomes: (only items in dark print apply)

This course supports the following Computer Information Systems Program Outcomes, which state that our students at the time of graduation are expected to:

1. Be prepared to contribute immediately as information systems professionals [1,2,3,4,5,6,7,8,9,10,11]
2. Be able to design and implement information systems that satisfy user requirements [1,2,3,4,5,6,7,8,9,10,11]
3. Possess a knowledge of computer security and computer security management.
4. Demonstrate effective written, visual, and oral communication skills [6,7,8,9,10,11]
5. Understand the global context in which computer information systems are practiced, including:
   a. Contemporary issues related to business and technology
   b. The impact of computers on society
   c. The role of ethics in the practice of information systems profession [6,7,8,9,10,11]
6. Be able to contribute effectively as members of systems development teams [1,2,3,4,5,6,7,8,9,10,11]
7. Recognize the need to pursue continued learning throughout their professional careers [1,2,3,4,5,6,7,8,9,10,11]

*Numbers in brackets refer to course objective(s) that address the Program Outcome.
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
If you have a disability, including a learning disability, for which you request disability support services/accommodation(s), please contact Ida MacDonald in the Disability Services office so that the appropriate arrangements may be made. In accordance with federal law, a student requesting disability services/accommodation(s) must provide appropriate documentation of his/her disability to the Disability Services counselor. In order to assure approved services the first week of class, diagnostic, prognostic, and prescriptive information should be received 30 days prior to the beginning of the semester services are requested. For more information, call or visit Disability Services located in the University Center, Room 3150. The telephone number is (903) 566-7079. Additional information may also be obtained at the following UT Tyler Web address: http://www.uttyler.edu/disabilityservices.

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.
COSC 4309  Design of Modern Information Systems – Fall 2010

General Information

Instructor: Leonard Brown
Office Location: RBN 3012
Office Hours: MWF 3:00 p.m. – 4:00 p.m. or by appointment
Phone: (903) 565-5677
Email: lbrown@uttyler.edu
Class Time/Location: MWF 12:00 noon – 12:50 p.m. / RBN 3038

Exams: There will be three midterm exams and one final exam given for this class. All exams will be held in the class lecture room. The midterm exams will be during the regular class time. The tentative dates of the exams are:

- **Midterm I**: October 1, 2010
- **Midterm II**: November 1, 2010
- **Midterm III**: December 1, 2010
- **Final Exam**: December 15, 2010 (12:30 p.m. – 2:30 p.m.)

You will be notified in advance of any change in the above dates.

Grading: There are five components to the course grade totaling 1000 points. The point distribution is as follows:

- Midterm I: 100 points
- Midterm II: 100 points
- Midterm III: 100 points
- Homework Assignments: 400 points
- Final Examination: 300 points

Course grades will be assigned based on the following scale:

- 900-1000: A
- 800-899: B
- 700-799: C
- 600-699: D
- 599 and below: F

Late Policies: All homework assignments are due at the beginning of class on the date specified in the assignment. Assignments will not be accepted after that time. In order to accommodate problems that may arise during the semester, you may turn in one (1) assignment late. That assignment will be accepted up to 48 hours after the initial due date, unless specified otherwise. It will not be accepted after that time.

Plagiarism: Unless otherwise specified, all work submitted for a grade must be completed by yourself - no group effort. Plagiarism will result in disciplinary actions. To spare yourself accusations of plagiarism—

1. Do not show another student a copy of your work before it has been graded. The penalties for permitting your work to be copied are the same as the penalties for copying someone else’s work.
2. Do not leave printouts of your work where other students may pick them up.