Course Description
Prerequisites: COSC 1337. This course covers information systems design and implementation within a database management system environment. Students will design and construct a system using database software to implement the logical design.

Class Time
Tues/Thurs 2:00pm – 3:20pm  COB 211

Instructor Information
Dr. Robert P. Schumaker
Associate Professor, Computer Science Dept.
COB 315.05
rschumaker@uttyler.edu

Office Hours
Tues and Thurs 12:30pm – 2:00pm
If these times don’t work for you, please make an appointment.
Appointments outside of office hours can be made at robschumaker.youcanbook.me

Textbook Information

Course Objective
- Learn and apply a systematic process for information system development
- Develop the ability to use the latest tools and techniques to develop information systems
- Create appropriate documents for requirements, functional design, implementation and user training
- Develop an understanding of the current state of the art by preparing and presenting a term paper on a current topic in information systems
- Develop an ability to work cooperatively to develop a high quality information system

Computer Account Access
Students will need a Patriot account and password for computer access. This information can be found at http://www.uttyler.edu/ccs

Course Documents and Slides
This class will use Canvas for course documents, slides, quizzes and other class-related materials. Students are encouraged to check the website frequently during the course of the semester to keep up to date about course activity.
Course Grading

Course evaluation will be based on the following:

- Homeworks (5 @ 5 points each) 25 points
- Midterm Exam 20 points
- Semester Project 20 points
- Lifelong Learning 5 points
- Class Participation 10 points
- Final Exam 20 points

Total Points 100 points

Grading Scale

A  90.0 points or more
B  80.0 to 89.999 points
C  70.0 to 79.999 points
D  60.0 to 69.999 points
F  59.999 points or less

Course Policies

1. Semester Project – For this assignment, student groups (of about 4-6 students per group) will focus on building a real-world Information System solution and present their work. More information can be found in the “Semester Project Description” document.

2. Lifelong Learning – It is imperative for successful individuals to continue learning throughout their lifetime. Professional organizations are a wonderful opportunity to reinvent, retool and build connections with industry leaders. Students that attend a professional technology organization meeting (and bring proof of attendance) will receive five points. Upcoming meetings and events can be found on Canvas.

3. Class Participation – Class Participation points are broken up into three parts; Attendance, tech stories (Tech) and operating the teaching workstation (Workstation). Attendance will be taken for each class and unexcused absences will be counted against the student’s Participation Attendance score. Participation Tech will be scored by the quantity of quality discussion a student contributes regarding relevant technology-related articles. Participation Workstation will be scored as to whether the student voluntarily operates the teaching workstation. The exact formula of Class Participation points will not be revealed until the end of the semester and the maximum points that can be earned is ten.

4. Homework Policy – All homework and assignments are due on the specified date. All assignments must be individually and independently completed and must represent the effort of the student turning in the assignment. Should two or more students turn in substantially the same solution or program, in the judgment of the instructor, the solution will be considered a group effort. Both or all involved in a group effort homework will receive a zero grade for that homework/assignment. A student turning in a group effort homework/assignment more than once will automatically receive an "F" grade for the course.

5. Make-up exams will be granted at the discretion of the instructor. Make-ups will be given only under extremely unusual circumstances, will be different from exams given during the regular class time and may be penalized up to 50% of the grade. Permission for a makeup exam must be obtained PRIOR to the regular exam and must include written documentation of the student’s absence.

6. Late Assignments – Assignments are due by 5:00pm of the date assigned. Assignments that are turned in late will be penalized by 20% for each 24 hour period (5:01pm to 5:00pm the following day).
zero if turned in more than 5 calendar days late. Electronic assignments are encouraged to be sent through email. Paper-based assignments can either be handed to the instructor or slipped under the door.

7. Classroom Lab Rules
   - Please do not surf the Web during class unless instructed to access the Internet.
   - Do not access inappropriate Web sites during class. This will lead to dismissal from the class.
   - Please do not work on other computer assignments during class.
   - Please do not talk to your neighbor during class.
   - Do not use the printer during class.
   - Please do not bring food or an uncovered drink into the computer classroom lab.
   - Do not use your phone during class.

8. Missed Work: Business professionals must also take responsibility for attending all scheduled meetings and activities. Attendance is absolutely necessary in order to be successful in this class. We will cover a new topic each class period and each subsequent class will build upon prior skills and concepts. If you miss a class you will miss an entire topic and any materials and assignments passed out. **Students who miss class are responsible for getting missed materials and lecture information on their own time from their peers.** Repeated and unexplained absences from scheduled class meetings (i.e., greater than 10 percent of scheduled class meetings) will be handled according to policies and regulations. At a maximum, a student may be dropped from the course in cases of excessive course absences.

**University Policies and Additional Information that Must Appear in Each Course Syllabus (9/16)**

**UT Tyler Honor Code**
Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

**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/rightsresponsibilities.php](http://www.uttyler.edu/wellness/rightsresponsibilities.php)

**Campus Carry**
We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at [http://www.uttyler.edu/about/campus-carry/index.php](http://www.uttyler.edu/about/campus-carry/index.php)

**UT Tyler a Tobacco-Free University**
All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit [www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free)
Grade Replacement/Forgiveness

and Census Date Policies
Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. (For Fall, the Census Date is Sept. 12.) Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.utt Tyler.edu/registrar

Each semester’s Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date (Sept. 12th) is the deadline for many forms and enrollment actions of which students need to be aware. These include:
Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)
Being reinstated or re-enrolled in classes after being dropped for non-payment
Completing the process for tuition exemptions or waivers through Financial Aid

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 census date (See Academic Calendar for the specific date).

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

Student Accessibility and Resources
In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources (SAR) office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to cstaples@ut Tyler.edu

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.

Student Standards of Academic Conduct

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

“Cheating” includes, but is not limited to:
copying from another student’s test paper;
using, during a test, materials not authorized by the person giving the test;
failure to comply with instructions given by the person administering the test;
possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed “crib notes”. The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
collaborating with or seeking aid from another student during a test or other assignment without authority;
discussing the contents of an examination with another student who will take the examination;
divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
falsifying research data, laboratory reports, and/or other academic work offered for credit;
taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.

“Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.
“Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.

All written work that is submitted will be subject to review by SafeAssign TM, available on Blackboard.

**UT Tyler Resources for Students**
- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Counseling Center (903.566.7254)
Tentative Course Schedule and Assignments:

<table>
<thead>
<tr>
<th>Date</th>
<th>Concept</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>Jan 15</td>
<td>Introduction to Database</td>
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<tr>
<td>Jan 17</td>
<td>Database System Concepts</td>
<td>Chapter 1</td>
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<td>Jan 22</td>
<td>Database Design and the SDLC</td>
<td>Chapter 9</td>
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<td>Jan 24</td>
<td>Microsoft Access Tables</td>
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<td>Jan 29</td>
<td>Microsoft Access Queries</td>
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<tr>
<td>Jan 31</td>
<td>Microsoft Access Advanced Queries</td>
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<tr>
<td>Feb 5</td>
<td>Microsoft Access Forms and Reports</td>
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<td>Feb 7</td>
<td>Microsoft Access Exercises – Baseball Database</td>
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<tr>
<td>Feb 12</td>
<td>Microsoft Access Exercises</td>
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<tr>
<td>Feb 14</td>
<td>Data Models Overview</td>
<td>Chapter 2 – Homework I</td>
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<td>Feb 19</td>
<td>ER Modeling</td>
<td>Chapter 4</td>
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<tr>
<td>Feb 21</td>
<td>ER Modeling Exercises</td>
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<tr>
<td>Feb 26</td>
<td>Extended ER Modeling</td>
<td>Chapter 5 – Homework II</td>
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<td>Feb 28</td>
<td>UML Modeling Exercises</td>
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<tr>
<td>Mar 5</td>
<td>Test Review and Final Project Teams</td>
<td>Homework III</td>
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<td>Mar 7</td>
<td>Midterm Exam</td>
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<td>Mar 12</td>
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<td>Mar 14</td>
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<td>Mar 19</td>
<td>mySQL Accounts and Introduction</td>
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<td>Mar 21</td>
<td>Create, Insert and Drop Tables</td>
<td>Chapters 7 and 8</td>
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<td>Mar 26</td>
<td>Inserts from other Schemas, Where and Update</td>
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<tr>
<td>Mar 28</td>
<td>Working with Where, Dates, Like, ANDs and ORs</td>
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<tr>
<td>Apr 24</td>
<td>In Class Baseball Exercises</td>
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<tr>
<td>Apr 4</td>
<td>More Baseball Examples with Aggregated Queries</td>
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<tr>
<td>Apr 9</td>
<td>SQL and String Manipulation</td>
<td>Homework IV</td>
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<tr>
<td>Apr 11</td>
<td>SQL and Date Manipulation</td>
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<tr>
<td>Apr 16</td>
<td>Homework IV Review</td>
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<tr>
<td>Apr 18</td>
<td>Database Administration – Project Work Day</td>
<td>Chapter 16 – Homework V</td>
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<tr>
<td>Apr 23</td>
<td>Project Work Day</td>
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<tr>
<td>Apr 25</td>
<td>Project Work Day</td>
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Scheduled dates may vary depending on the pace of the class.