MISSION STATEMENT: The School of Business prepares a diverse student body for successful careers by offering high-quality professional business programs in a student-centered learning environment. As a teaching institution enriched by management practice-related and pedagogical scholarship and service, the School primarily serves undergraduate students while offering strategically-focused graduate programs.

COURSE NUMBER AND TITLE: IS 413 - Database Concepts

CLASS MEETING TIME AND LOCATION: TR 12:30 pm - 1:50 pm; Cremer Hall 315

PREREQUISITES: IS 333 or concurrent enrollment with IS 333 and junior standing

INSTRUCTOR AND OFFICE: Dr. Sharath Sasidharan, CH 108

OFFICE HOURS: TR 8.00 am to 9.30 am & 2.00 pm to 3.30 pm; W 1.00 pm to 3.00 pm or by appt.

TELEPHONE NUMBER(S): (620) 341-5087 (O) (620) 341-6346 (FAX)
E-mail: ssasidha@emporia.edu

REQUIRED TEXT(S): Database Processing, 12/E, Kroenke and Auer

SOFTWARE: MS SQL Server 2008 (available via School of Business Skylab Server)

SUPPLEMENTAL MATERIALS:

2. SQL Tutorial [http://w3schools.com/sql/default.asp]
3. ESU Blackboard [elearning.emporia.edu]

COURSE DESCRIPTION:

The basic objectives of this course are to develop an understanding of database development including data modeling, normalization, and implementation in the relational model using SQL, to develop an understanding of database administration, and to explore other database models including the object-orientated model and client-server implementations.
COURSE OBJECTIVES:

1. To develop an understanding of the role of databases within an organization
2. To analyze existing and future data processing requirements of an organization
3. To translate data processing requirements into a conceptual data model
4. To apply normalization techniques and to identify integrity/security issues
5. To implement a physical design from the data model taking into consideration hardware, operating system, and networking requirements
6. To master the basics of database administration, performance, and optimization

Developing database application programs involves mastering database design theory and implementation using an industry-standard database package (MS SQL Server for this course). Both require interest, effort, and determination on your part. The key to developing implementation skills is extensive hands-on practice time with the software, making mistakes, learning from your mistakes, and ensuring that you never make those mistakes again.

COURSE EVALUATION PROCESS:

Course Activity Weights:  
Homework Assignments (4) 20%
Mid-Term Exam (1) 15%
Final Exam (1) 20%
Individual Project (1) 10%
Team Project (1) 15%
Quizzes (15) 15%
Career Development 05%
100%

Grading Scale:

90 - 100% = A
80 - 89.99% = B
70 - 79.99% = C
60 - 69.99% = D
Below 60% = F

A. Homework Assignments - You have to submit 4 individual assignments each carrying 5% weight towards your final grade. Assignments will be made available on Blackboard one week before the due date for submission (see Course Outline for submission dates). These are due by midnight on the Saturday of the respective week. Assignments will not be accepted after the due date/time unless you have obtained prior permission from the instructor.

B. Examinations - You will have a mid-term exam carrying 15% weight towards your final grade (see Course Outline for dates). The final exam will carry 20% weight. Make-up exams will be provided only if you have obtained prior permission from the instructor or have a legitimate reason for missing the exam.
C. **Projects** - The individual project carries a total of 10% weight towards your final grade and the team project carries a total of 15% weight towards your final grade. Grading is based on completion of all requirements. The project details and requirements will be posted on Blackboard (see Course Outline for dates).

D. **Quizzes** - There will be 15 unannounced quizzes (each carrying 1% weight) conducted at random over the course of the semester. These quizzes can be conducted at any time during a class meeting. They will relate to material that has been discussed in previous class sessions or to be discussed in that session (*please make sure that you go through the prescribed readings for a session in advance*). If you are absent during a quiz, no make-up quiz will be conducted unless you have a legitimate reason for not attending classes.

E. **Career Development** - There will be a 5% weight for your participation in career development activities. These will include activities such as resume preparation, participation in mock interviews, and participation in career fairs. Details will be posted on BB.

F. **Extra Credit** - You can earn extra credit of up to 3 percentage points for active participation in an ESU recognized discipline-based club or organization (e.g. the IS Club). Active participation includes attending meetings, participation in club activities, holding officer positions etc. If you intend to go in for the extra credit, let me know the club/organization, and the name of the faculty advisor by 08/23/2012. You have to submit a one-page written report at the end of the semester outlining your club-related activities. If you are unable to associate yourself with a club/organization and would like to go for the extra credit, let me know by 08/23/2012, and I will give you an alternate activity.

**ATTENDANCE POLICY:**

Students are expected to attend class regularly and roll will be taken each class meeting. Student grades will be based completely on evaluation of assignments, exams, project, and quizzes. Grades will not be directly affected by class attendance. Attendance does, however, have an indirect “cause and effect” relationship on grades. Missing 4 or more classes may result in instructor initiated withdrawal from the course.

**ACADEMIC DISHONESTY:**

At Emporia State University, academic dishonesty is a basis for disciplinary action. Academic dishonesty includes, but is not limited to, activities such as cheating and plagiarism (presenting as one’s own the intellectual or creative accomplishments of another without giving credit to the source or sources).

The faculty member in whose course or under whose tutelage an act of academic dishonesty occurs has the option of failing the student for the academic hours in question and may refer the case to other academic personnel for further action. Emporia State University may impose penalties for academic dishonesty up to and including expulsion from the university.
CLASSROOM PROTOCOL:

Turn off and put away (book, bag or purse) your cell phone during all class periods. If you arrive late, sit at the back of the room. Any student using the cell phone during class will have it placed on the instructor desk for the rest of the class period. If this situation occurs again, the student will be dismissed from class.

DISABLED STUDENT POLICY:

Emporia State University will make reasonable accommodations for persons with documented disabilities. Students need to contact the Director of Disability Services and the professor as early in the semester as possible to ensure that classroom and academic accommodations are implemented in a timely fashion. All communication between students, the Office of Disability Services and the professor will be strictly confidential.

WITHDRAWAL POLICY:

Students who decide to withdraw and receive an automatic “W” must complete the formal withdrawal procedure by **Wednesday, October 24th 2012**.
**COURSE OUTLINE:**

*Note: Instructor discretion and circumstances during the semester may lead to revision of course content.*

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<thead>
<tr>
<th>Wk.</th>
<th>Week Ending (Fri)</th>
<th>Topics</th>
<th>Readings*</th>
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<tr>
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<td>Syllabus</td>
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<td>2</td>
<td>08/24</td>
<td>Introduction to Databases</td>
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<td>3</td>
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<td>Assignment 2</td>
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<td>10/19</td>
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<td>18</td>
<td>12/14</td>
<td>FINAL EXAM WEEK</td>
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<td>Final Exam</td>
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*Chapter readings refer to the prescribed textbook. Notes refer to instructor distributed notes.

**Assignments will be made available on Blackboard one week before the due date for submission. These are due by midnight on the Saturday of the respective week.*