College of Hospitality 
and 
Technology Leadership 

COP 2700 
Database Systems Basics 

Spring 2015 
3 Credit Hours
Instructor: Xiomara Casado  
E-Mail: Please use Canvas Messages

Class Meeting time: No Face-to-face meetings.  
Meets Monday 1:00 pm – 3:50 pm via Blackboard Collaborate

PREREQUISITES: COP 2030 – Programming Concepts I

COURSE DESCRIPTION: Database systems are described in general, with particular emphasis on design and implementation of relational databases, the course will also cover database management, database administration, in addition to some advances topics like Big Data, and Data warehouses.

COURSE TOPICS:  
This course will cover the following content areas:
- The Relational Model
- Structured Query Language
- Data Modeling and the Entity-Relationship Model
- Database Design
- Database Management
- Database Administration
- Big Data, Data Warehouses and Business Intelligence Systems

COURSE OBJECTIVES:
1. How to design relational database management systems as the primary tools used to accomplish data resource management efficiently and effectively.
2. Learn SQL Language
3. Learn about Databases management and administration, such as Databases security and recovery options.
4. Learn about some advanced topics in Database such as BIS, big Data, and data warehousing.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY MISSION STATEMENT: The mission of the Information Technology Program is to provide high quality educational opportunities for students interested in pursuing careers in the broad range of fields that support our computer/information-based society and economy. Additionally, the goal is to utilize the resources of the program to provide service to society; and to emphasize to students the need for lifelong learning, to have ethical conduct, and an understanding of the diverse social context in which Information Technology is practiced.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY PROGRAM LEARNING OUTCOMES (PLOs):
1. Demonstrate technical knowledge and skill sets (computational and analytic) needed for success in careers related to Information Technology.
2. Demonstrate an understanding of professional ethics in the development and application of Information Technology.
3. Design and develop computer processes and systems of advanced complexity.
4. Assess the potential value of new technologies and see possibly beneficial applications.
5. Conduct computer research, organize a structured presentation, and deliver it in a way that communicates to novice users as well as computer experts.
COURSE STUDENT LEARNING OUTCOMES:
On completing this course students will be able to:

1. Explain the process of database design
2. Set up a database using the Data Definition Language components of SQL
3. Apply the Data Manipulation Language components of SQL for data management, queries, and report generation.
4. Explain some of the important concepts of Database administration and management.
5. Become familiar with some of the new Database technologies.

TEXT AND MATERIALS

Required textbook:
Database Concepts, 7/E
David M. Kroenke, David Auer
©2015 • Prentice Hall

Software:
Students will need Microsoft Access to perform a couple of assignments. An additional DBMS will need to be installed to complete other projects. In addition, a separate software product may be needed to create the Entity-Relationship diagrams.

GRADING, EVALUATION AND ATTENDANCE POLICIES:
Student performance will be evaluated based on exams; in addition to a number of quizzes and assignments.

Below is a summary for the determination of the final grade.

<table>
<thead>
<tr>
<th>Assignment/Quizzes</th>
<th>Points</th>
<th>%</th>
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<tbody>
<tr>
<td>Quiz 1 – Chapters 1 thru 4</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>Quiz 2 – Chapters 5 thru 8</td>
<td>40</td>
<td>10</td>
</tr>
<tr>
<td>8 Chapter Mini Quizzes 8 x 4</td>
<td>32</td>
<td>8</td>
</tr>
<tr>
<td>6 Assignments</td>
<td>300</td>
<td>72</td>
</tr>
</tbody>
</table>

A+  97 | B+  87 |       | C+  77 | D+  67 | F  <60 |
A   94 | B   84 | C   74 | D   64 |
A-  90 | B-  80 | C-  70 | D-  60 |

Incomplete Grade
An Incomplete grade is reserved for those with good reason for having missed *a small amount of work*, and must be agreed by the student and instructor during the course as circumstances require. Otherwise, exams not taken or assignments not turned in will receive a zero grade and will be counted in the final grade accordingly. **Please note that it is the student’s responsibility to ensure that work is completed before the end of the following semester and the Incomplete changed to a regular grade. If this is not done before the end of the following semester, the Incomplete automatically becomes an F.**
Attendance Policy
This course is being offered totally online, students are expected each week to watch the videos/recordings that can be found in the modules section in Canvas, and read the chapters in the textbook as noted in the schedule section below. There will be live discussion sessions using blackboard collaborate to help students answer questions related to the material and solve some problems, students are expected to come prepared to the discussion sessions, and to post questions in the discussion board to the instructor and to each other to help guide the discussion sessions.

USFSM AND USF SYSTEM POLICIES

A. Academic Dishonesty: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the USFSM Catalog, the USF System Academic Integrity of Students, and the USF System Student Code of Conduct. The instructor may use the “Turnitin.com” software to access potential plagiarism and precise obligation to reference all materials taken from electronic sources.

B. Academic Disruption: The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the USFSM Catalog, USF System Academic Integrity of Students, and the USF System Student Code of Conduct.

C. Contingency Plans: In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Canvas, Elluminate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor Canvas site for each class for course specific communication, and the main USFSM and College websites, emails, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency. See the Campus Police Website for further information.

D. Disabilities Accommodation: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator, 941-359-4714, disabilityservices@sar.usf.edu, http://usfsm.edu/disability-services/

E. Fire Alarm Instructions: At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See Emergency Evacuation Procedures.

F. Religious Observances: USFSM recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes. Instructors canceling class for a religious observance should have this stated in the syllabus with an appropriate alternative assignment.

G. Sexual Misconduct/Sexual Harassment Reporting: USFSM is committed to providing an environment free from sex discrimination, including sexual harassment and sexual violence (USF System Policy 0-004). The Counseling and Wellness Center is a confidential resource where you can talk about incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. This confidential resource can help you without having to report your situation to either the Office of Student Rights and Responsibilities (OSSR) or the Office of Diversity, Inclusion, and Equal Opportunity (DIEO), unless you request that they make a report. Please be aware that in compliance with Title IX and under the USF System Policy, educators must report incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. If you disclose any of these situations in class, in papers, or to me personally, I am required to report it to OSSR or DIEO for investigation.
The Deputy Coordinator for USFSM is Mary Beth Wallace, AVP for Student Enrollment, Engagement and Success, 941-359-4330 or marybeth@sar.usf.edu.

**Campus Resources:**
- Counseling Center and Wellness Center 941-487-4254
- Victim Advocate (24/7) 941-504-8599

**List of off-campus resources:**
- Hope of Manatee: 941-755-6805
- Safe Place & Rape Crisis Center (SPARCC) – Sarasota: 941-365-1976
- First Call for Help–Manatee: 941-708-6488
  Sarasota & North Port 941-366-5025
- Manatee Glens: 941-782-4800

**H. Web Portal Information:** Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and Canvas course information via that address.

**GENERAL INSTRUCTION FOR STUDENTS**
Students are not permitted to take notes or tape lectures for the purpose of sale. This includes Blackboard Collaborate recordings.

**COURSE SCHEDULE:** Please note this is a tentative schedule – some shifting could occur as we progress into the semester.

<table>
<thead>
<tr>
<th>Week</th>
<th>Module</th>
<th>(Reading /Recordings)</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>01/05</td>
<td>Course introduction. Chapter 1 - Introduction to Databases</td>
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<tr>
<td>01/12</td>
<td>Chapter 2 - Relational Model</td>
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<tr>
<td>01/19</td>
<td><strong>Martin Luther King, Jr. holiday (no class)</strong></td>
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<tr>
<td>01/26</td>
<td>Chapter 2</td>
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<tr>
<td>02/02</td>
<td>Chapter 3 - Structured Query Language</td>
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<tr>
<td>02/09</td>
<td>Chapter 3</td>
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<tr>
<td>02/16</td>
<td>Chapter 4 - Data Modeling and the Entity-Relationship Model</td>
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<tr>
<td>02/23</td>
<td>Chapter 4</td>
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<tr>
<td>03/02</td>
<td><strong>Spring Break</strong></td>
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<tr>
<td>03/09</td>
<td><strong>Quiz 1 (Chapters 1 -4) is due</strong></td>
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</table>
|       | Chapter 5 - Database Design | | There will be 6 assignments
| 03/16 | Chapter 5 | | See assignments’ instructions and due dates in Canvas
| 03/23 | Chapter 6 - Database Administration | | |
| 03/30 | Chapter 7 - Database Processing Applications | | |
| 04/06 | Chapter 7 | | |
|       | Chapter 8 - Big Data, Data Warehouses and Business Intelligence Systems | | |
| 04/13 | Chapter 8 | | |
| 04/20 | **Quiz 2 (Chapters 5-8) is due** | | |