Syllabus

IOM402 - 2 units (Business Information Systems – Database Applications)

Contact Information

Instructor: Wayne Wilmeth
Phone & Voicemail: (213) 740-0716 (This is my office in downtown Los Angeles)
E-mail: Wilmeth@marshall.usc.edu
Class Location: HOH-415
Class Time: Wednesdays 4pm - 5:50pm
Office Location: Bridge Hall 401J
Office Hours: Wednesdays 3pm - 4pm (You can also email me for an appointment at another time.)

Course Goal

Business Information Systems Database Applications is designed to provide you with an applied understanding of how databases are used to analyze business information. This course brings in the technology layer providing you with an opportunity to create real world software applications that are used in (Accounting, Finance, Marketing and Operations). This course will also enhance the your understanding of the core disciplines by providing you with the skills and experience to develop, test and implement systems that support many of the information analysis needs of today's organizations.

Learning Objectives

- Proficient in the use and design of relational database systems using "Microsoft Access" as a tool for achieving this objective.
- Design and develop and implement a database application to solve a real world managerial problem.

Prerequisites and Technical Requirements

The following identifies the standard office automation software (Microsoft Office 2007, PC version) used at the Marshall School of Business and the associated basic usage skills students should have prior to taking this course. Students should be able to:

- Properly operate the mouse to navigate and manipulate files and menu items.
- Open, move, resize, and work in multiple application windows at one time.
- Search, open, rename and save existing files.
- Cut, copy, and paste from one application to another.
- Use Internet Explorer.
- Access specific Web pages by entering the appropriate URL information.
- Access Blackboard.

Textbook

None – Handouts will be provided.

ASSESSMENT

- Participation (50pts)
- Exercise 1 – Normalization (20pts)
- Exercise 2 – Boomerang Relationships (30pts)
- Tables Assignment (100pts)
- Queries Assignment (100pts)
- Forms Exercises (100pts)
- Reports Assignment (100pts)
- Forms/Macros/Switchboards Assignment (100pts)
- Final Project (400pts)

Final Database Project – Working Database - 400 pts.

You will apply your knowledge acquired in the labs to develop a real world database application using Microsoft Access. Preferably, your database should meet the needs of a real entity such as a club, organization, or business (no fees may be charged). Your database should have the following characteristics:

- 3 Tables Minimum
- 2 Reports Minimum
- 4 Queries Minimum. (Some of which utilize: Calculations, Multi-table joins, summary operators, functions.)
- 1 Data Entry From & 1 Switchboard Minimum.
- All projects must be approved by the professor.
- Requests to work in groups must be approved by the instructor

The database will be evaluated based upon its design, functionality, and complexity (i.e. working, no bugs, relationships normalized), user interface, and formatting.

Session	Lecture Topic	Lab Topic	Items Due
Session 1 *Aug. 25*	• Overview of Course • Lecture – Normalization Materials Distributed: • Database Design Basics • Exercise 1: Normalization (Due 9/1)	• Creating Relationships in Access	
Session 2 *Sept. 1*	• Solutions to Exercise 1 • Lecture – Table Properties • Lecture – Boomerang Case Materials distributed: • Exercise 2 - Boomerang (Due 9/8)	• Database Properties	Exercises 1 Due (Start of Class)
Session 3 *Sept. 8*	• Boomerang Design Materials Distributed: • Tables Assignment (Due 9/22)	• Work on Tables Assignment	Exercises 2 Due (Start of Class)
Session 4 *Sept. 15*	• Tables Assignment	• Work on tables Assignment	
Session 5 *Sept. 22*	• Queries Lecture Materials Distributed • Queries 1-22	• Queries Assignment: Simple Queries (Q1-Q12) • Queries Assignment: Calculated Fields (Q13 – Q22)	Tables Assignment Due (Start of Class)

Session 6 *Sept. 29*	• Queries Lecture Materials Distributed: • Queries 23-43	• Queries: Summary Operators (Q23-35) • Queries: Working with Dates (Q36-43)	
Session 7 *Oct. 6*	• Queries Lecture Materials Distributed: • Queries 44-58	• Queries: Domain Aggregate Functions (Q44-Q47) • Queries: Table Join Manipulation (Q48-Q53) • Queries: Parameter Queries (Q54-Q58)	
Session 8 *Oct. 13*	• Queries Lecture Materials Distributed: • Queries 59-69	Queries: Action & Cross Tab Queries (Q59-69)	
Session 9 *Oct. 20*	• Forms Lecture Materials Distributed: • Forms Exercises	• Forms Exercises	All Queries Due (Start of Class)
Session 10 *Oct. 27*	• Forms Lecture • Forms Exercises	• Forms Exercises	
Session 11 *Nov. 3*	• Reports Lecture Materials Distributed: Reports Assignment	• Reports Assignment	Forms Exercises Due (Beginning of Class)
Session 12 *Nov. 10*	• Reports Lecture	• Reports Assignment	
Session 13 *Nov. 17*	• Macros/Switchboards Lecture • Forms/Macros/Switchboards Assignment	• Forms/Macros/Switchboards Assignment	Reports Assignment Due (Beginning of Class)
Session 14 *Nov. 24*	• Macros / Switchboards	• Work on Forms/Macros/Switchboards	
Session 15 *Dec. 1* *Last Session*	• Lab time to work on Final Project.	• Lab time to work on Final Project	Last Day Late Boomerang Materials Accepted
Final Project Due *Dec. 8*	• Lab time to work on Final Project. • Final Project Due	• Lab time to work on Final Project	Database Project due by end of class.

TURNING IN ASSIGNMENTS
Assignments will be turned in via Blackboard (blackboard.usc.edu). Please do not email me your database files.

DUE DATES AND LATE ASSIGNMENTS
The due dates are in the syllabus; however, I may extend a due date depending upon the pace of the class. Under most circumstances late work is accepted; however, I subtract 5 points per day for late Boomerang work and 10 points per day for late final projects.

NOTICE ON ACADEMIC INTEGRITY
The use of unauthorized material, communication with fellow students during an examination, attempting to benefit from the work of another student, and similar behavior that defeats the intent of an examination or other class work is unacceptable to the University. It is often difficult to distinguish between a culpable act and inadvertent behavior resulting from the nervous tensions accompanying examinations. Where a clear violation has occurred, however, the instructor may disqualify the student's work as unacceptable and assign a failing mark on the paper.

FOR STUDENTS WITH DISABILILITIES
Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me as early in the semester as possible. DSP is located in STU 301 and is open 8:30 a.m. - 5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.