

QMIS 350: Advanced Business Problem Solving & Programming

Instructor: Dr. Mohammad Al-Marzouq

Times: Sunday, Tuesday, Thursday (Computer Center Lab 2)

Section 1: 8:00 - 8:50

Section 51: 09:00 - 9:50

Office hours: Mon, Wed: 9:30 - 11

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Assistant: Eng. Hessa AlHumaidan

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Course Description

The course is intended to enhance and refine students' object-oriented programming and application development capabilities. As such, the course is centered around three major application themes within an Objected-Oriented framework: Text based processing, Database Processing and Web-Based Processing. Knowledge and skill requirements for the development of an application within each theme are introduced as mini-projects that ultimately lead towards the development of a useful application of significant size and complexity utilizing previous and new knowledge acquired in an incremental and refinement fashion.

The course runs in a PC-equipped Class or Lab where students are expected to know how to read programming references to achieve the goals set by their instructor each class.

Course Objective

By the end of this course, students will be able to:

- Ability to develop Web Based Applications
- Ability to gather requirements for the development
- Ability to identify, reuse and customize various pre-built programming object or components.
- Ability to create reusable applications (using OO)
- Ability to test and debug an applications

Prerequisite

MIS230 & MIS240

Textbook

- Introduction to Programming Using Visual Basic 2010, 8/E, David I. Schneider, Prentice Hall

Recommended Readings

- Visual Basic.Net Programming, Business Applications with a Design Perspective Second Edition, by Jeffrey J. Tsay

Additional material

Mostly lab exercises and lecture notes provided by the instructor, students are “required” to search and find programming resources on the internet.

Course Content Delivery Strategy

- Lab based mini projects
- Use of Power Point with the multimedia projector
- Online content delivery and social media

Course Outline

Topic	Notes
Introduction	<ul style="list-style-type: none"> • Quick review of Visual Studio and Visual Basic • Install Visual Studio Community Edition 2015: <ul style="list-style-type: none"> ○ Mac users need to install parallels desktop, but you will need to purchase windows 10 or 8 or see the TA for assistance • Submitting work using dropbox <ul style="list-style-type: none"> ○ You need to share the project folder
Review	<ul style="list-style-type: none"> • Week 1 Lab http://bit.ly/mis350_w1 • Week 2 Lab
Collections	

Object Oriented Programming	
Linq	
Databases	
Textual data (XML)	
Web Applications	

Attendance Policies

1. Absence will be calculated from the number of missed quizzes.
2. Missing a total of 7 classes will result in an FA grade.

Policies

1. The student is responsible for understanding class policies and keeping up to date with any changes made to them.
2. Twitter will be the main class communication tool, the student will be responsible to learn how to use it and to keep up to date with class announcements.
3. Announcements, policy changes, assignments, and all communication posted on twitter for the user mis350 timeline will be considered authoritative and treated as if the instructor mentioned it in class and as part of the course syllabus.
4. Quizzes will not be repeated for any reason.
5. Negotiation of the final grade is neither accepted nor discussed.
6. Students are held to the highest standards of honor and conduct in class. As such, plagiarism and cheating will not be tolerated and will result in an automatic F for any student caught in such an act.
7. This is a practical programming course, you have to do the work on your own. Copying the work of others, or asking other to do the work for you is considered an act of cheating and is punishable with an F in the course.
8. All mobile phones, communication, and electronic devices should be silenced.
9. Submitted quizzes/project/assignments must be functional to receive a grade:
 - a. A submission that is empty will guarantee 5% of the available grade.
 - b. A submission that fails to run will guarantee 10% of the available grade.
 - c. Student will receive points only for requirements that **work**.
 - d. Adding extra features and showing that you learned something new that was not taught in class is an almost certain way to get **bonus** points.

Assignments

1. Written assignments, if any, will not be accepted if not typed.
2. Late assignments will not be accepted.
3. Assignments that are to be turned in class must be handed to the instructor prior to the completion of taking attendance, otherwise, the homework will be considered late and not accepted.
4. E-mailed assignments **will not be accepted**, **accepted electronic homework submission channels will be announced by the instructor, if any.**
 - a. **Dropbox is the official way to submit your work**
5. Assignments must be performed by the student or team members, and no one external.

Exams and Project

Details to be announced at a later date in class

Final is set on 21/12/2015 from 8 to 10 AM.

Grading

Quizzes & Assignments	50%
Project	30%
Labs	20%
Total	100%

Grade distribution

Range	Grade
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≥ 95	A
90-94	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
65-69	D+
60-64	D
≤ 59	F