

## MANG 3788 - Business Applications Development – FALL 2009

Section – 001- M,W- 9:30-10:45 A.M. KH 214

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*Office Hours: M,W 11:00 -11:30 A.M.*

**Text:** Class Notes Posted on Blackboard

**Learning Objectives:** After successfully completing the course students will be able to (1) recognize the major issues in business applications development, (2) understand the principles of programming, (3) manage the development of business applications, (4) design business application interfaces, (5) understand the technology for application-database interaction, (6) evaluate the investment in business applications, and (7) participate in the implementation of business information systems.

**Attendance Policy:** Class attendance and participation are worth 10% of the grade. Attendance will be taken in every class session. You must explain the reason for your absence via e-mail to the instructor prior to missing a class.

**Academic Integrity:** Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated.

Students are expected to conduct themselves according to the principles of academic integrity as defined in the statement on Academic Dishonesty in the UNO Judicial Code. Any student or group found to have committed an act of academic dishonesty shall have their case turned over to Judicial Affairs for disciplinary action which may result in penalties as severe as indefinite suspension from the University. Academic dishonesty includes, but is not limited to: cheating, plagiarism, fabrication, or misrepresentation, and being an accessory to an act of academic dishonesty. Refer to the UNO judicial code for further information. The judicial code is available online on the UNO website at: [http://www.studentaffairs.uno.edu/studentpolicies/policymanual/judicial\\_code\\_pt1.cfm](http://www.studentaffairs.uno.edu/studentpolicies/policymanual/judicial_code_pt1.cfm)

**Accommodations:** It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations.

### **Course Description for Fall 2009 semester:**

This course presents the basics of business applications development using Microsoft's Visual Basic .NET to develop stand-alone applications, interactive web based applications, and shared web services. Managerial issues in applications development are discussed throughout the course, with an emphasis on maintaining control over code development,

documentation, help file development, and user interface issues. The course also introduces the basics of the structured query language for database interfaces.

Students turn in two reports (250 words) on topics that will be provided by the instructor.

*All software required for the course has been installed on CBCI Lab machines in Kirchman Hall. Lab Hours will be posted by the lab admin and updated during the semester.*

**Optional:** The Visual Express Suite of software is available for free download from Microsoft and additional instructions will be provided by the instructor for student who prefer to load the software on their own machines and work at home.

### Class Schedule (Final Version for Fall 2009 Semester)

Week	Topic	Read/Practice, Homework
Aug 24, 26	Class Introduction. Course Policies and Requirements. Introduction to Business Applications Development. Computer Access at UNO. Visual Basic.NET. Creating a VB Project. Working with Controls. User Interfaces VB.NET Interface. Managerial issues in Applications Development. Managing an Application Development Project.	Chapter 1, 3
Aug 31, Sep 2	User Interfaces. Building Windows Applications. Delivering Executables. Applications Design and Development. Roles of IS Analyst, Manager, & Developer.  GUI Tools.	Chapter 2, 4, 5 Homework 1 Due Sep 11
Sep 9, 14, 16,	Relational Databases. SQL - Structured Query Language Database Front End - Winapps.	Chapter 6, 7 Homework 2 Due Sep 18
Sep 21, 23	Coding. If and Case Statements, Using Functions & Procedures. Business issues in code development. Dialog Boxes and Error Trapping. Debugging and Documentation,	Chapter 8, 9 Homework 3 Due Sep 25
Sep 28 Exam	<b>Exam 1 – Written: Closed book and notes.</b>	
Sep 30, Oct 2, 5	Application Security. Help Files. Just in Time Training for end-users. Management Involvement in Code Development.	Chapter 10, 11, 12 Homework 4 Due Oct 7

Oct 7, 12, 14	Web Forms. Dot Net Web pages to access and publish databases. Web Forms, HTML Forms Design. Validating User Input Data Database Front end - Web Application	Chapter 13, 14, 15 Homework 5 Due Oct 16
Oct 19	<b>Exam 2 – Hands-on: The hands-on exam is open book and notes.</b>	
Oct 21, 26, 28	Web Site Management, Page Navigation. Web Access for databases	Chapter 16, 17, 18 Homework 6 Due Oct 30
Nov 2, 4, 9	Web Services. Design and development of dot net web services. Web Site Scripting/New Tools. AJAX	Chapter 19, 20 Homework 7 Due Nov 13 <b>Report - 1 Due Nov 13</b>
Nov 11 - Exam	<b>Exam 3 – Hands On: The hands-on exam is open book and notes.</b>	
Nov 16, 18	System Security, System Testing	Homework 8 Due Nov 20
Nov 23, 25	Arrays and Collections, Macro Programming Office Applications.	<b>Report – 2 Due Nov 23</b>
Nov 30, Dec 1	Summary, Review	
<b>Final Exam, Thursday, Dec 10</b>  <b>10:00 A.M. to 12:00 P.M.</b>	<b>Written, Closed Book &amp; Notes</b>	

<b>Grading Policy</b>	Class Attendance & Participation	5%
	Exam 1,2,3 @ 15% each	45%
	Final Exam	20%
	Homework	20%
	Reports (I & II)	10%