

Henry Ford Community College
5101 Evergreen Rd.
Advanced Visual Basic.NET Programming – Tentative Syllabus
CIS 215- Winter 2011

INSTRUCTOR: Tony Conti Email: tconti@hfcc.edu
OFFICE: T-162-F **PHONE:** (313) 845-6355
OFFICE HOURS: Mon 7- 7:30 am, 9:30-10 am, 12-1 pm, 3-4:30 pm
 Tue 12 – 1 pm, 2:30 pm – 3 pm
 Wed 7- 7:30 am, 9:30-10 am, 12-1 pm, 3-4:30 pm
 Thu 12 – 1 pm, 2:30 pm – 3 pm
 Fri Class Preparation

Catalog Description

An advanced programming course that covers the following topics: create and use classes, database programming, data sources with databases, using ADO.Net for creating database access code, creating business classes, files and data streams. The LINQ language will be discussed as well.

Prerequisites

CIS 130 or work related experience (completion of Cis 111 is preferred)

Course Objectives

- Create a middle layer class.
 - *Create an application that will interface with a relational database management system.
 - Create a MDI application.
 - Create an application using the LINQ language.
 - Setup an Application Deployment process for an existing application.

Text and Materials:

- 1) TEXT: Murach's ADO.Net 3.5 LINQ and the Entity Framework with VB 2008 by Anne Boehm
 - 2) A flash drive that will be used for lectures and assignment work.

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Instructional Plan (Tentative):

<u>Week</u>	<u>Text Reference</u>	<u>Program Assignments/Quizzes</u>
Week 1	Chapter 1 - An introduction to database programming.	
Week 2	Chapter 3 – How to work with data sources and datasets	Assignment #1
Week 3	Finish Chapter 3 Chapter 4 – How to work with bound controls and parameterized queries	Assignment #2 Quiz Chp 3
Week 4	Finish Chapter 4 Chapter 5 – How to use the Dataset Designer	Assignment #3
Week 5	Chapter 6 – How to work with connections, commands, and data readers	Quiz Chp 4
Week 6	Chapter 7 – How to work with parameters and stored procedures Lab Test #1	Assignment #4 Quiz Chp 5
Week 7		
Week 8	Chapter 7 – How to work with parameters and stored procedures	Quiz Chp 6
Week 9	Chapter 8 – How to work with transactions	Assignment #5
Week 10	Finish Chapter 8	Quiz Chp 7
Week 11	Chapter 9 - How to work with object data sources	Assignment #6 Quiz Chp 8
Week 12	Chapter 11 – An introduction to LINQ Lab Test #2	
Week 13	Finish Chapter 11	Assignment #7 Quiz Chp 9
Week 14	Chapter 12 – How to use LINQ to Dataset	Assignment #8
Week 15	How to use Crystal Reports Deploying an Application	Quiz Chp 11
Finals Week	Lab Test #3	

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Instructional Policies:

Course Completion Requirements

8 Assignments @ 10 points	80
8 Quizzes @ 10 points	80
3 Lab tests @ 20 points	60
	Total of 220

- For your assignments you will need to hand in the following items:
 1. Your application solution will be copied to the "K" drive. The instructor will provide instructions on how this task should be done.
 2. A cover sheet. This is a Word document the instructor will provide.
- Quiz study guide questions will be available within the CIS 215 folder on the K: drive. USE THE TEXTBOOK TO FIND YOUR ANSWERS.
- The tests will involve lab problems. The lab problems will be related to the programs done during the lecture.

Grading Scale

Points Accumulated	Grade
206-220	A
198-205	A-
190-197	B+
183-189	B
176-182	B-
168-175	C+
161-167	C
154-160	C-
146-153	D+
139-145	D
132-138	D-
<= 131	E

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Attendance

- In order to keep track of an accurate attendance I will set up a seating chart. At the end of each class session I will use the seating chart to record absences. Although you will not be subtracted points for any absences it is YOUR responsibility to keep up with the material covered in class.
- Test day: If you are sick/car problems/etc... please leave me a message on my office phone.

Withdrawl/Drop

- I will record a drop (DR) for students failing the course (grade of an 'E') automatically or for those students who stop attending class.

Late Assignments

- Students will lose 20% of the assignment points after due date. After 1 week the assignment is due the most points that can be received is 50% of the assignment points. After 2 weeks of due date assignments CANNOT BE HANDED IN for a grade.

Dishonesty

- I do not mind students helping each other out on assignments and projects. But, how do you define helping? Making file copies of your work is not helping a student. Both students will be marked down 100% if this happens. Second offense will result with an 'E' for the course grade.
- 'Roaming Eyes' will be penalized (10 points off 1st offense) on the day of the test - even if you do NOT change any answers after looking at your neighbor's test. To prevent temptation I will remind you on the day of the test to cover your answer sheet with the test paper questions. If you do not cooperate with this you will be penalized 10 points. Second offense of dishonesty will result in receiving 0 points for the test.

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Class Calendar for Tuesday/Thursday Sessions

Week	Session 1	Session 2
1	1-11	1-13
2	1-18	1-20
3	1-25	1-27
4	2-1	2-3
5	2-8	2-10
6	2-15	2-17
7	2-22	2-24
8	3-1	3-3
9	3-15	3-17
10	3-22	3-24
11	3-29	3-31
12	4-5	4-7
13	4-12	4-14
14	4-19	4-21
15	4-26	4-28
Finals	To be announced	

Tentative Schedule - Revised 11/26/2010

Week		Topics of Discussion	Chapters Covered
One	1/11/2011	Course Introduction, Review of Syllabus, UCompass, Drive Assignments, Data DVD's Handed Out, Groups Assigned	
	1/13/2011	Introduction to Database Management Systems, History of the Database, and the Role of the Database Administrator / Jobs in the DBA Market	<ul style="list-style-type: none"> ▪ F – Chapter 1 ▪ F – Chapter 15
Two	1/18/2011	Oracle Licensing, System Architecture Requirements, Support Contracts, Expansion Considerations	<ul style="list-style-type: none"> ▪ F – Chapter 4
		Comparison costs and features vs. SQL Server, MySQL, MS Access	<ul style="list-style-type: none"> ▪ Handouts
	1/20/2011	Database Design/Creation and Data Itself: Constraints, Indexes, Tables, Cubes, Normalization vs. Warehousing, Business Intelligence Analysis (Data Mining) – PART I	<ul style="list-style-type: none"> ▪ F – Chapter 6 ▪ W – Chapter 4
Three	1/25/2011	Database Design/Creation and Data Itself: Constraints, Indexes, Tables, Cubes, Normalization vs. Warehousing, Business Intelligence Analysis (Data Mining) – PART II	<ul style="list-style-type: none"> ▪ F – Chapter 7 ▪ W – Chapter 10
	1/27/2011	Database Design/Creation and Data Itself: Constraints, Indexes, Tables, Cubes, Normalization vs. Warehousing, Business Intelligence Analysis (Data Mining) – PART III	<ul style="list-style-type: none"> ▪ W – Chapter 11 ▪ Handouts
Four	2/1/2011	The Oracle Architecture – Data Dictionaries and Libraries. Data Types, Storage Access Methods	<ul style="list-style-type: none"> ▪ W – Chapter 1 ▪ F – Chapter 3
	2/3/2011	The Oracle Architecture – Data Dictionaries and Libraries. Data	

		Types, Storage Access Methods (cont.)	
		Quiz #1 – Database Design and Oracle Architecture	
Five	2/8/2011	Installing the Oracle Engine inside the Windows Environment	<ul style="list-style-type: none"> ▪ F – Chapter 5 ▪ W – Chapter 7 ▪ Handouts
	2/10/2011	Installing the Oracle Engine inside the Unix Environment	
Six	2/15/2011	Upgrading Oracle Releases	<ul style="list-style-type: none"> ▪ Handouts
	2/17/2011	User Accounts in Oracle: Authentication Comparison using Oracle Authentication, Active Directory, and LDAP	<ul style="list-style-type: none"> ▪ F – Chapter 8 Part A ▪ W – Chapter 3
Seven	2/22/2011	User Accounts in Oracle: Authentication Comparison using Oracle Authentication, Active Directory, and LDAP (cont.)	<ul style="list-style-type: none"> ▪ F – Chapter 14, p. 319 ▪ W – Chapter 5 ▪ Handouts
	2/24/2011	Oracle Data Dictionary & Data Importing / Exporting Quiz #2 – Managing Users, Installation and Configuration of Engine	<ul style="list-style-type: none"> ▪ W – Chapter 24 ▪ W – Chapter 25
Eight	3/1/2011	Oracle Data Dictionary & Data Importing / Exporting	<ul style="list-style-type: none"> ▪ F – Chapter 8, Part B ▪ Handouts w/ DVD
	3/3/2011	Working with SQL & PL/SQL, Triggers, Constraints, Stored Functions and Procedures	<ul style="list-style-type: none"> ▪ W – Chapter 8 ▪ F – Chapter 2
Nine	3/8/2011	COLLEGE CLOSED – SPRING BREAK – STAY SAFE!!!!	
	3/10/2011	COLLEGE CLOSED – SPRING BREAK – STAY SAFE!!!!	
Ten	3/15/2011	Working with SQL & PL/SQL, Triggers, Constraints, Stored	<ul style="list-style-type: none"> ▪ W – Chapter 9 ▪ F – Chapter 17

	3/17/2011	Functions and Procedures Working with SQL & PL/SQL, Triggers, Constraints, Stored Functions and Procedures	<ul style="list-style-type: none"> ■ W – Chapter 13 ■ W – Chapter 15
Eleven	3/22/2011	Working with SQL & PL/SQL, Triggers, Constraints, Stored Functions and Procedures	<ul style="list-style-type: none"> ■ W – Chapter 16 ■ W – Chapter 17 ■ W – Chapter 19
	3/24/2011	Working with SQL & PL/SQL, Triggers, Constraints, Stored Functions and Procedures Quiz #3 – Views and Triggers	<ul style="list-style-type: none"> ■ Guest Lecture ■ 3rd Party Tools DVD
Twelve	3/29/2011	Backup and Recovery in Oracle: Native and Third-Party Concerns (ArcServe, Backup Exec)	<ul style="list-style-type: none"> ■ F – Chapter 12
	3/31/2011	Backup and Recovery in Oracle: Native and Third-Party Concerns (ArcServe, Backup Exec)	<ul style="list-style-type: none"> ■ F – Chapter 13
Thirteen	4/5/2011	Database Maintenance	<ul style="list-style-type: none"> ■ F – Chapter 14
	4/7/2011	Database Tuning and Optimization (Note: Not SQL Tuning, but Engine Tuning)	<ul style="list-style-type: none"> ■ W – Chapter 28 ■ F – Chapter 16
Fourteen	4/12/2011	Database Monitoring, Statistics, & 3 rd Party Support Tools	<ul style="list-style-type: none"> ■ F – Chapter 10 ■ Handouts
	4/14/2011	Database Monitoring, Statistics, & 3 rd Party Support Tools Quiz #4 – Backups, Maintenance and Tuning	<ul style="list-style-type: none"> ■ W – Chapter 27 ■ Handouts
Fifteen	4/19/2011	Oracle Forms and Reporting Options, Part I	<ul style="list-style-type: none"> ■ Handouts
	4/21/2011	Oracle Forms and Reporting, Part II	<ul style="list-style-type: none"> ■ Handouts w/ DVD
Sixteen	4/26/2010	User Access to the Oracle Database:	<ul style="list-style-type: none"> ■ W – Chapter 18

	4/28/2010	XML, Java, JPub, HTML, Part I User Access to the Oracle Database: XML, Java, JPub, HTML, Part I	<ul style="list-style-type: none"> ▪ W – Chapter 21 (Jpub) ▪ W – Chapter 22 ▪ W – Chapter 23
Finals	5/3/2010	Oracle Integration with MS Office Applications (Excel, Mail Merges, etc.), <i>SQL Tuning Theory</i>	<ul style="list-style-type: none"> ▪ Handouts ▪ F – Chapter 17
	5/5/2010	Group Database Demonstrations – Capstone Projects	

Notes: Textbooks F = Fernandez Text, W = Wiley and Sons Text