Henry Ford Community College
5101 Evergreen Rd.
SQL for Database Development
CIS 111- Fall 2010 (Tentative)

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 intermediate course familiarizing the student with the SQL language to retrieve and modify tables within a SQL Server database management system. The queries will include outer joins, summary queries and subqueries. Students will use normalization techniques to design and create a database structure. Views and stored procedures also will be discussed. Front-end forms will be created to interface with the back-end table structures.

Prerequisites

CIS 125 or work related experience

Course Objectives

After completion of CIS-111, the student should be able to:

- Create a SQL Select statement to retrieve data from one or more table structures
- Create a SQL Action query to modify table data.
- *Create and implement a database structure utilizing normalization techniques.
- Create SQL Server table views.
- Create SQL Server functions, triggers and stored procedures.
- *Create a SQL script file for data analysis

Text and Materials:

1) TEXT: Murach's SQL Server 2008 for developers by Syverson and Murach.

2) If you plan on doing your lab work at home or work then you will need to install the following free Microsoft products:

1. SQL Server 2008 Express (database engine).
2. SQL Server 2008 Management Studio Express (GUI client tool).

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Instructional Plan(Tentative):

Week	Text Reference	Assignment/Test schedule
Week 1	Introduction Activity Sheet **Chapter 2** – How to use the Management Studio **Chapter 3** – How to Retrieve Data from a single table.	
Week 2	Chapter 3 – continued **Chapter 4** – How to Retrieve Data from Multiple Tables	Assignment #1
Week 3	Chapter 4 – continued	Assignment #2 **Quiz – Chapter 3**
Week 4	**Chapter 5** – How to code Summary Queries	Assignment #3
Week 5	**Chapter 6** – How to code subqueries	**Quiz – Chapter 4**
Week 6	Chapter 6 – continued	
Week 7	**Chapter 7** – How to insert, update and delete data.	Assignment #4 **Quiz – Chapter 5**
Week 8	**Chapter 8** – How to work with data types and functions.	**Lab Test #1 (Chp 3-5)**
Week 9	**Chapter 9** – How to design a database structure.	**Quiz – Chapter 6** **Assign Team Project #1** Assignment #5
Week 10	**Chapter 10**– How to create and maintain databases and tables	
Week 11	**Chapter 12** – Working with views	**Lab Test #2(Chp 6-8)**
Week 12	**Chapter 13** – Coding SQL Scripts	**Quiz – Chapter 7**
Week 13	**Chapter 14** – Stored Procedures	**Assign Project #2 (NOT done with teams) Quiz – Chapter 8**
Week 14	**Chapter 14** – Triggers and Functions	
Week 15	**Chapter 17** – Manage Database Security	
Finals		**Lab Test - Final**

Instructional Policies:

Course Completion Requirements

- The quizzes will involve multiple choice questions and fill in questions. There are multiple choice/fill in questions located on the "K" drive that will be helpful for the quizzes. An answer key is not given but if you read the text book you will be able to find ALL answers. YOU CANNOT use your notes, textbook or the computer for the multiple choice/fill-in questions during the quiz. You will be able to use the computer for the lab tests (including the online help manual). The lab tests will be problems related to the assignments given in class.

Six Quizzes @ 15 pt	90	
Five Assignments @ 10 pt	50	
Three Lab tests @ 20 pt	60	
Team Project #1	20	
Individual Project #2	20	
Total	**240**	**points**

Grading Scale

Your grade will be based upon the number of points accumulated for the class. The following is the grading scale for the points accumulated:

Points Accumulated	Grade
225-240	A
216-224	A-
208-215	B+
200-207	B
192-199	B-
184-191	C+
176-183	C
168-175	C-
160-167	D+
152-159	D
144-151	D-
<= 143	E

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.

Dropping Class

- I will record a drop (DR) for students failing the course automatically unless informed by the student in which case I will record an 'E'. I will also record a drop for those students who stop attending the class.

Late Assignments

- Students will lose 20% of the assignment/project points after due date. After 1 week the assignment/project is due the most points that can be received is 50% of the total points.

Dishonesty

- I do not mind students helping each other out on assignments and projects. But, how do you define helping? Making file script copies of your work is not helping a student. Both students will be marked down 100% if this happens.

- '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. Third offense, 'E' grade for the class.

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Class Calendar for Monday/Wednesday Sessions

Week	Session 1	Session 2
1	8-30	9-1
2	9-8	9-13
3	9-15	9-20
4	9-22	9-27
5	9-29	10-4
6	10-6	10-11
7	10-13	10-18
8	10-20	10-25
9	10-27	11-1
10	11-3	11-8
11	11-10	11-15
12	11-17	11-22
13	11-24	11-29
14	12-1	12-6
15	12-8	12-13
Finals	To be announced	