Texas State Technical College Marshall

COURSE SYLLABUS

BLUEPRINT READING AND SKETCHING

DFTG 1325
Number

2-4-3
Lecture - Lab - Credit

DMTH 0050, READ 0100, WRIT 0100
Suggested Prerequisite

Mel Elliston
Department Chair

Fall 2006
Date

This syllabus has been reviewed and is current on the date indicated.

Reviewed By	Date
Maurice Warren	August 2006
Prepared By	
Melvin J. Elliston	August 2006
Department Chair/Designee	

I. COURSE DESCRIPTION:

An introduction to reading and interpreting working drawings for manufactured and associated products. Use of sketching techniques to create pictorial and multiple-view drawings.

II. COURSE OBJECTIVES:

Upon completion of the course the student will be able to:

A. Understand Prints: The language of Industry.
B. Identify the Alphabet of lines.
C. Sketch Freehand
D. Understand Orthographic Projection Drawings
E. Letter and Dimension Freehand Sketches.
F. Read Auxiliary View Drawings
G. Differentiate between Detail and Assembly Drawings
H. Understand Dimension and Tolerances
I.

III. COURSE OUTLINE:

A. LECTURE:

1. Chapter 1 Introduction to Microsoft SQL Server 2000
   - 1.1 Overview of SLQ Server 2000
   - 1.2 Components of SQL Server 2000
   - 1.3 Overview of SQL Server 2000 Architecture
2. Chapter 2 Using Transact SQL on a SQL Server database
   - 2.1 SQL Server Programming Tools
   - 2.2 Introduction to Transact-SQL
   - 2.3 Transact-SQL Syntax Elements
   - 2.4 Executing Transact-SQL Statements
3. Chapter 3 Designing a SQL Server Database
   - 3.1 Introduction to Database Design
   - 3.2 Planning a SLQ Server Database
   - 3.3 Identifying System Requirements
   - 3.4 Developing a Logical Data Model
4. Chapter 4 Implementing SLQ Server Databases and Tables
   - 4.1 Creating and Managing a SQL Server Database
   - 4.2 Identifying Data Types
   - 4.3 Creating and Managing Tables
5. Chapter 5 Implementing Data Integrity
   - 5.1 Introduction to Data Integrity
   - 5.2 Implementing Integrity Constraints
6. Chapter 6 Accessing and Modifying Data
   - 6.1 Accessing Data in a SQL Server Database
   - 6.2 Using Advanced Query Techniques to Access Data

6.3 Modifying Data in a SQL Server Database

7. Chapter 7 Managing and Manipulating data
   - 7.1 Importing and Exporting Data
   - 7.2 Using Distributed Queries to Access External Data
   - 7.3 Using Cursors to Retrieve Data
   - 7.4 Retrieving XML Data
8. Chapter 8 Implementing Stored Procedures
   - 8.1 Introduction to Stored Procedures
   - 8.2 Creating, Executing, Modifying and Deleting Stored Procedures
   - 8.3 Programming Stored Procedures
9. Chapter 9 Implementing Triggers
   - 9.1 Introduction to Triggers
   - 9.2 Creating and Managing Triggers
   - 9.3 Programming Triggers
10. Chapter 10 Implementing Views
    - 10.1 Introduction of Views
    - 10.2 Creating, Modifying and Deleting Views
    - 10.3 Accessing Data through Views
11. Chapter 11 Implementing Indexes
    - 11.1 Index Architecture
    - 11.2 Index Creation and Administration
12. Chapter 12 Managing SQL Server Transactions and Locks
    - 12.1 Transaction and Locking Architecture
    - 12.2 Managing SQL Server Transactions
    - 12.3 Managing SQL Server Locking
13. Chapter 13 Designing and Administering SQL Server 2000 Security
    - 13.1 Overview of SLQ Server 2000 Security
    - 13.2 Designing a Database Security Plan
    - 13.3 Database Security Implementation and Administration
14. Chapter 14 SQL Server Monitoring and Tuning
    - 14.1 Monitoring Databases with SQL Profiler
    - 14.2 Index Tuning and Database Partitioning

B. LABORATORY:

1. Chapter 1 Introduction to Microsoft SQL Server 2000
   - 1.1 Introduction of project
   - 1.2 Exercise on components
2. Chapter 2 Using Transact SQL on a SQL Server database
   - 2.1 Exercise 1 Navigating SQL Query Analyzer and Running a Query
   - 2.2 Exercise 2 Creating and Executing DDL, DCL, and DML Statements
   - 2.3 Exercise 3 Using Transact-SQL Syntax Elements to Create a Script
3. Chapter 3 Designing a SQL Server Database
   - 3.1 Exercise 1 Exploring the Basic Concepts of Database Design

3.2 Exercise 2 Identifying the System Requirements for Your Database Design
3.3 Exercise 3 Developing a Logical Data Model
3.4 Create an Entity Relationship Diagram for project

4. Chapter 4 Implementing SLQ Server Databases and Tables
   4.1 Exercise 1 Creating and Managing a Database
   4.2 Exercise 2 Identifying Column Data Types
   4.3 Exercise 3 Creating and Managing Tables in a SQL Server Database
   4.4 Create the tables for project
5. Chapter 5 Implementing Data Integrity
   5.1 Exercise 1 Identifying the Properties Used to Ensure Data Integrity
   5.2 Exercise 2 Adding Constraints to Existing Tables
   5.3 Identify constraints for your tables
6. Chapter 6 Accessing and Modifying Data
   6.1 Exercise 1 Using SELECT statements to Access Data
   6.2 Exercise 2 Using Advanced Query Techniques to Retrieve Data
   6.3 Exercise 3 Modifying Data in a SQL Server Database
   6.4 Create the SELECT statements to pull data from your tables
7. Chapter 7 Managing and Manipulating data
   7.1 Exercise 1 Importing and Exporting Data
   7.2 Exercise 2 Using Distributed Queries to Access External Data
   7.3 Exercise 3 Creating a Cursor to Retrieve Data
   7.4 Exercise 4 Retrieving XML Data
8. Chapter 8 Implementing Stored Procedures
   8.1 Exercise 1 Exploring Stored Procedures
   8.2 Exercise 2 Working With Stored Procedures
   8.3 Exercise 3 Programming Stored Procedures to Insert and Retrieve Data
   8.4 Create a stored procedure for project
9. Chapter 9 Implementing Triggers
   9.1 Exercise 1 Applying Cascading Referential Integrity Constraints
   9.2 Exercise 2 Creating and Managing Triggers
   9.3 Create triggers for project
10. Chapter 10 Implementing Views
    10.1 Exercise 1 Creating and Modifying a View
    10.2 Exercise 2 Using the Authors Books View to Access Data
    10.3 Create views for project
11. Chapter 11 Implementing Indexes
    11.1 Exercise 1 Viewing Index Properties and Using an Index
    11.2 Exercise 2 Creating a Clustered Index
    11.3 Determine the indexes your project should have
12. Chapter 12 Managing SQL Server Transactions and Locks

12.1 Exercise 1 Accessing and Modifying the Transaction Log
12.2 Exercise 2 Implementing Explicitly Transactions
12.3 Exercise 3 Configuring Transaction Properties
12.4 Determine appropriate locks for project

13. Chapter 13 Designing and Administering SQL Server 2000 Security
    13.1 Exercise 1 Designing Security
    13.2 Exercise 2 Implementing Security
    13.3 Create a security plan for project
14. Chapter 14 SQL Server Monitoring and Tuning
    14.1 Exercise 1 Capturing Events Using SQL Profiler
    14.2 Exercise 2 Tuning Queries Using the Index tuning Wizard

IV. REFERENCE MATERIALS:

MCSE Microsoft SQL Server 2000 Database Design and Implementation (Training Kit), Microsoft Press, ISBN 0-7356-1248-X

V. SUPPLIES:

A. Removable Hard Drive
B. 3 ring binder
D. Pens (blue or black ink)

VI. GRADING POLICY:

90	100	A
80	89	B
70	79	C
60	69	D
0	59	F

Labs (Exercises)	20%
Tests	25%
Midterm Exam	15%
Final Exam	15%
Projects	25%

Makeup tests will result in an automatic letter grade reduction for that test (A to B, B to C, etc.). No makeup tests after one week of original exam date.

VII. CLASS PARTICIPATION POLICY

A. Texas State Technical College challenges students to be learners who assume responsibility for being a part of a community of scholars. Student presence and participation in the classroom is an important component of this challenge. Furthermore, as part of its mission, TSTC offers an education that prepares students for professional employment. Each student is encouraged to develop a

professional work ethic that reflects responsibility, initiative, and teamwork.

B. Students are expected to attend all classes. Students who are absent from class miss opportunities to contribute to the learning environment of the classroom and are developing patterns that will not be tolerated in the professional workplace.

C. In light of the above, the student is responsible for all assigned course work and cannot be absolved of this responsibility. When enrolled in a particular course, the student is obligated to do all of the work assigned. Punctual and regular attendance is vital to the discharge of this obligation and absences, excused or not, do not alter this responsibility.

D. Students whose absences exceed 15 percent of the scheduled classes and laboratories may receive an "F" for the course.

VIII. SAFETY:

All students in this course will comply with all general safety rules, which apply to the type of activity in progress in each class. Violation of course safety rules can result in grade penalties and/or other appropriate disciplinary action.

IX. SPECIAL NEEDS:

If you have a condition, such as a physical or mental disability, which will make it difficult for you to carry out the work as outlined, or will require extra time on examinations, please notify the Instructor or the Office of Disabled Student Services in the first two weeks of the course so that appropriate arrangements may be made.

X. OTHER:

A. Student Conduct:

1. Students are expected to conduct themselves in a professional manner and to dress in the appropriate attire for the class being presented.
2. Each student is expected to act responsibly and take the consequences for his/her action or inaction as appropriate.

B. Classroom Etiquette:

1. An atmosphere of respect will be expected of all within the classroom.
2. Any open displays of prejudice, harassment, etc. will not be tolerated.
3. Any student who disrupts the classroom will be asked to leave and will receive a zero on all work due that day and will be counted as absent for the day.
4. A second disruption by that student will be grounds for the student to be administratively dropped from the class and other disciplinary action will be taken as appropriate.
5. There will be no smoking, dipping, chewing tobacco or use of profane language in the classroom.
6. Food and drink are not permitted in the classroom.

XI. INSTRUCTOR INFORMATION:

A. Instructor Name: _____
B. Office Number: _____
C. Phone Number:
   1. School: _____
   2. Extension: _____
D. Instructors e-mail address: _____
E. Office Hours: As posted on office door

XII. SCANS Analysis for the Course:

IMPLEMENTING A DATABASE ON MICROSOFT SQL SERVER

SCANS Matrix

Program: E-COMMERCE & SOFTWARE ENGINEERING TECHNOLOGY

Degree: _X__Associate _X__ Certificate

List of All Identified Competencies

Competencies

1	2	3	4	5	6	7	8	Course Number	Course Title
	x		x	x	x	x	x	ITSE 2333	IMPLEMENTING A DATABASE ON MICROSOFT SQL SERVER
								Competency References	
							8	**Basic Use of Computers**	
						7		**Workplace Competencies**	
					6			**Personal Qualities**	
				5				**Thinking Skills**	
			4					**Speaking and Listening**	
		3						**Arithmetic or Mathematics**	
	2							**Writing**	
1								**Reading**	