



SQL PROGRAMMING

Course Syllabus

Date 11/17/11

C - L - CR
3 - 0 - 3

COURSE NUMBER: CPT 202

PREREQUISITE(S): CPT 242 with grades of C or better.

CO-REQUISITE(S): None

COURSE DESCRIPTIONS This course is an introduction to the writing of basic Structured Query Language (SQL) used in creating tables, inserting data, retrieving data, and manipulating data from database.

TEXTBOOK(S): Murach’s SQL Server 2008 for developers, Bryan Syverson & Joel Murach, Murach publisher, ISBN: 1-890774-51-6

REFERENCE(S): None

OTHER REQUIRED MATERIALS, TOOLS, AND EQUIPMENT: USB Jump Drive (min. capacity 4 Gb.)
Student should have access to Blackboard.

METHOD OF INSTRUCTION: Lecture/Lab/Demonstration

GRADING SYSTEM:

90	-	100	=	A
80	-	89	=	B
70	-	79	=	C
60	-	69	=	D
Below	-	60	=	F

GRADE CALCULATION METHOD:

TESTS (3 Tests)	=	40%
Projects/Labs (10 labs)	=	40%
Final Exam	=	<u>20%</u>
	=	100%

ATTENDANCE POLICY: The student is responsible for punctual and regular attendance in all classes, laboratories, clinical, practica, internships, field trips, and other required class activities. The College does not grant excused absences; therefore, students are urged to reserve their absences for emergencies. When illness or other emergencies occur, the student is responsible for notifying

instructors and completing missed work if approved for late submission by instructors.

The student is tardy if not in class at the time the class is scheduled to begin and is admitted to class at the discretion of the instructor.

Instructors maintain attendance records. However, **it is the student's responsibility to withdraw from a course.** A student enrolling in and attending at least one course session remains enrolled until the student initiates a withdrawal.

Withdrawal Policy: During the first 75% of the course, a student may initiate withdrawal and receive a grade of W. A student cannot initiate a withdrawal during the last 25% of the course. Extenuating circumstances require documentation and approval by the appropriate department head and academic dean.

Absences for Religious Holidays: Students who are absent from class in order to observe religious holidays are responsible for the content of any activities missed and for the completion of assignments occurring during the period of absence. Students who anticipate their observance of religious holidays will cause them to be absent from class and do not wish such absences to penalize their status in class should adhere to the following guidelines:

1. Observance of religious holidays resulting in three or fewer consecutive absences: Discuss the situation with the instructor and provide written notice at least one week prior to the absence(s). Develop (in writing) and instructor-approved plan which outlines the make up of activities and assignments.
2. Observances of religious holidays resulting in four or more consecutive absences: Discuss the situation with the instructor and provide the instructor with written notice within the first 10 days of the academic term. Develop an instructor-approved plan with outlines the make up of activities and assignments.

**CLASSROOM
CONDUCT:**

ACADEMIC DISHONESTY: Students are expected to uphold the integrity of the College's standard of conduct, specifically in regards to academic honesty. All forms of academic dishonesty including, but not limited to, cheating on

assignments/tests, plagiarism, collusion, and falsification of information will call for disciplinary action. Disciplinary action imposed may include one or more of the following: written reprimand, loss of credit for assignment/test, termination from course, and probation, suspension, or expulsion from the College. For further explanation of this and other conduct codes, please refer to the Student Handbook.

CELLULAR PHONES AND PAGERS/BEEPERS: Cellular phones, pagers and beepers are not permitted to be turned on or used within the classroom. Use of these devices during classroom time will be considered a violation of the student code as it relates to “disruptive behavior.”

CLASS/LAB PROCEDURES:

There are **NO** make-up tests given. One test (agreed by instructor) can be missed and replaced with final exam grade with 10 points deduction. For late assignments, there will be 10 points deduction per late day.

No smoking, drinking or eating is permitted in the classroom or lab at any time!

The Learning Center, located in the rooms E-2 & E-5 of the East Building, provides computers for your use. Check the website <http://www.sccsc.edu/resources/tutoring/tlc> or call 592-4968 for current semester operating hours.

ACCOMMODATIONS:

Students who need special accommodations in this class because of a documented disability should notify Student Disability Services by calling (864) 592-4818, toll-free 1-800-922-3679; via email through the SCC web site at www.sccsc.edu/resources/disabilities; or by visiting the office located in the East Building Room 30-B on the SCC Central campus. Contacting Student Disability Services early in the semester gives the College an opportunity to provide necessary support services and appropriate accommodations.

Incident Weather Schedule:

- Check SCC Web Site: www.sccsc.edu
- Tune to **Channel-7** Local T.V. Station (CBS)
- Tune to an FM/AM Local radio station

Program Department Chair

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592-4839

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**COURSE OUTCOMES
& OBJECTIVES:**

Upon satisfactory completion of this course, the student will be able to:

- I. Identify components of SQL-Server 2000
 1. Develop a plan to port Access Database To SQL Server
 2. Evaluate database objects that will not port to SQL Server.
 3. Identify tools available with SQL-Server 2000.to facilitate the database upsizing.
 4. Work with SQL Server Query Analyzer.

- II. Creating SQL Statements
 1. Understand the fundamentals of SQL.
 2. Build and maintain a database with SQL.
 3. Define how to store data in a database using SQL.
 4. Understand advanced and more efficient ways of working with databases in SQL.
 5. Keep databases secure with SQL.
 6. Define how to use cursors to work with data in a database.
 7. Define the benefits of error handling and how to implement it.
 8. Use SQL Data Definition Language, Data Manipulation Language and Data Control Language to
 - Create tables
 - Insert data
 - Construct queries involving only 1 table
 - Construct queries involving multiple tables
 - Construct Subqueries
 - Update and delete data
 - Set up security for a database

- III. Understand Aggregate Functions and Grouping Data
 1. Implementing Aggregate Functions
 2. Grouping Data
 3. Learn about Typical Join Operations
 4. Learn about Complex Join Operations

- IV. Understand and create Stored Procedures and Triggers
 - 1. Implementing Stored Procedures
 - 2. Implementing Triggers
 - 3. Learn how to delete Stored Procedures and Triggers