

**J. Sargeant Reynolds Community College**  
**Course Content Summary**

**Course Prefix and Number: ITD 132**

**Credits: 4**

**Course Title:** Structured Query Language

**Course Description**

Incorporates a working introduction to commands, functions and operators used in SQL for extracting data from standard databases. Provides students with a hands-on experience developing code, functions, triggers, and stored procedures for SQL Server 2005. Prerequisite: ITD 130 or equivalent. Lecture 4 hours per week.

**General Course Purpose**

Option for students who want to continue database skills with Microsoft SQL Server instead of Oracle SQL.

**Course Prerequisites/Corequisites**

ITD 130 or equivalent

**Course Objectives**

Upon completing the course, the student will be able to:

1. Create database views.
2. Create stored procedures.
3. Create database functions.
4. Create database triggers.
5. Use database transactions.
6. Use XML.
7. Manage database security with roles, users, and permissions.
8. Create user-defined data types.

**Major Topics to be Included**

1. View
2. Code scripts
3. Stored procedures and functions
4. Triggers
5. Transactions
6. XML
7. Security
8. User-defined types

**Effective Date of Course Content Summary: 1/1/2008**