

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

Course Prefix and Number: ITD 132 (T-SQL)

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 2012. 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.

Course Prerequisites/Co-requisites:

Prerequisite: ITD 130 or equivalent

Course Objectives:

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

1. Create database tables and views.
2. Use advanced SQL coding techniques.
3. Create stored procedures.
4. Create database functions.
5. Create database triggers.
6. Use database transactions.
7. Use XML.
8. Create user-defined data types.

Major Topics to be Included:

1. View
2. Code Scripts
3. Common-Table Expressions and Temporary Tables
4. Using System Functions
5. Stored Procedures
6. User-Defined Functions
7. Triggers
8. XML
9. User-Defined Types

Effective Date of Course Content Summary: August 15, 2013