

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

Course Prefix and Number: ITD 132

Credits: 3

Course Title: Structured Query Language (T-SQL)

Course Description: Incorporates a working introduction to commands, functions, and operators used in SQL for extracting data from standard databases. Provides students with hands-on experience developing code, functions, triggers, and stored procedures for SQL Server 2014. Prerequisite: ITD 130 or school approval. Lecture 3 hours per week.

General Course Purpose: Option for students who want to continue database skills with Microsoft SQL Server.

Course Prerequisites and Co-requisites:

Prerequisite: ITD 130 or school approval

Course Objectives:

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

- a. Create database tables and views;
- b. Use advanced SQL coding techniques;
- c. Create stored procedures;
- d. Create database functions;
- e. Create database triggers;
- f. Use database transactions;
- g. Use XML; and
- h. Create user-defined data types.

Major Topics to Be Included:

- a. View
- b. Code scripts
- c. Common-table expressions and temporary tables
- d. Using system functions
- e. Stored procedures
- f. User-defined functions
- g. Triggers
- h. XML
- i. User-defined types

Effective Date of Course Content Summary: August 8, 2018