

**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 Microsoft SQL Server.

Prerequisite: ITD 130 or equivalent. Lecture 3 hours per week.

**General Course Purpose:**

ITD 132 is a requirement for the Computer Programmer Career Studies Certificate and the Information Systems Technology AAS - Computer Programmer concentration. It is an IT elective for other students and an option for students who want to continue database skills with Microsoft SQL Server.

**Course Prerequisites and Co-requisites:**

**Prerequisite:** ITD 130 or equivalent

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- Create database tables and views;
- Use advanced SQL coding techniques;
- Create stored procedures;
- Create database functions;
- Create database triggers;
- Use database transactions;
- Create user-defined data types; and
- Use XML.

**Major Topics to Be Included:**

- Tables and views
- Code scripts
- Common-table expressions and temporary tables
- Using system functions
- Stored procedures
- System functions
- User-defined functions
- Triggers
- XML

**Effective Date/Updated:** August 15, 2018