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