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
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. Create user-defined data types; and
h. Use XML.

Major Topics to Be Included:
 a. Tables and views
 b. Code scripts
 c. Common-table expressions and temporary tables
 d. Using system functions
 e. Stored procedures
 f. System functions
 g. User-defined functions
 h. Triggers
 i. XML

Date Created/Updated (Month, Day, Year): August 15, 2018