

# Advanced Databases CIS-279 30 0

Spring Term 2022-2023 School Year Section 30 0 3.00 Credits 01/09/2023 to 05/05/2023 Modified 01/05/2023

## Course Description

This course will provide students the opportunity to work with Microsoft SQL Server. Large tables allows for the ability to make SQL queries more efficient. Students learn how to use SQL Server tool like Management Studio and Query Analyzer to effectively create and maintain databases. Reporting software will also be covered in the course. Prerequisite: CIS 194

## Outcomes

### Course Outcomes

Upon successful completion of this course, the student shall be able to

- Define and utilize database terminology effectively.
- Create queries using SQL.
- Utilize t-SQL statements in writing SQL.
- Write and use scripts to solve problems.
- Write stored procedures, functions, and triggers
- Describe database access standards.

### Program Outcomes

## Science and Technology

- Develop software applications to solve a business problem.
- Demonstrate proficiency in the design and use of databases.

## Problem Solving/Critical Thinking

- Appraise the strengths and weaknesses of one's completed work.
- Analyze a client's software requirements in order to develop possible solutions.

## Professionalism

- Utilize professional resources (i.e. professional organizations, media and IT websites).
- Use effective time management skills.

## Communication

- Research and present an IT topic using appropriate terminology.
- Write programs with clarity, efficiency, and accuracy.

# Additional Outcomes

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## Course Materials

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### Murach's SQL Server 2019 for Developers

**Author:** Bryan Syverson, Joel Murach

**Publisher:** Murach

**ISBN:** 9781943872572

**Availability:** Campus Bookstore

eBook also available (ISBN 9781943872701)

# SQL Server 2019

SQL Server 2019

SQL Server Management Studio (SSMS)

**Availability:** STC VMware

The software will be on your STC laptop or available through VMware Horizon Client

## Deliverables

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Projects

Exams

Labs

## Evaluation Procedures and Grading

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A = 89.5 +

B = 79.5 to  
89.49

C = 69,5 to  
79.49

D = 59.5 to  
69.49

F = 0 to 59.49

 Additional Items

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 Course Outline

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