Course Information

Semester & Year: Spring 2023

Course Title: SQL Server

Course Prefix & Number: CIS276DB

Section Number: 24959

Credit Hours: 3.0

Start Date: 1/19/2023

End Date: 5/12/2023

Room Number: CM444

Meeting Days: Thursday

Meeting Times: 6:00pm – 8:30pm

Course Format

The course format for this course is In Person.

Instructor Information

Instructor: Allen Watts

Email: allen.watts@scottsdalecc.edu

Phone: 480.423.6265

Office Location: "My Office" (found in the Virtual Rooms module in Canvas) & CM410

Office Hours: Mon (10a-11), Tue (11a-12), Wed (10a-11), Thu (5p-6), Fri (3p-4)

Course Description

A broad overview of the Microsoft Structured Query Language (SQL) Server database. Includes SQL instruction for data definition, data manipulation, and data retrieval. Develops knowledge and skills required to install SQL Server, model and create new

databases, manage users, authentication, and stored procedures, and develop backup/restore strategies.

Prerequisites

CIS105 or permission of instructor

Course Competencies

1. Demonstrate an understanding of data analysis involved in relational databases. (I)
2. Develop an Entity Relationship Diagram (ERD) to optimize a database's design (I)
3. Demonstrate an understanding of database server installation and configuration (III)
4. Demonstrate the ability to use SQL and the client interface tools. (III, IV, V)
5. Use server-side scripting languages to access a relational database for dynamic content presentation. (III, IV, V)
6. Demonstrate the ability to add/manage users and authentication. (IV)
7. Create database objects. (V)
8. Create a new SQL database. (VI)
9. Implement a backup/restore strategy. (VI)

Texts and Course Materials

Murach's SQL Server 2019 for Developers, Murach, Syverson, Mike Murach and Associates, 2019. ISBN-13: 978-1943872572. You can acquire either the paperback or an eBook.

Course Technologies

View the Accessibility Statements & Privacy Policies of technologies used in this course.

Maricopa Systems

This course uses key Maricopa systems for course management and communication.

● Canvas Learning Management System
● Student Maricopa Gmail Account
● Maricopa Open Educational Resource Learning System (MOER)

Synchronous Communication Tools

This course will occasionally make use of web conferencing and/or other synchronous course tools.

- Big Blue Button (virtual office)

Student Assignment Tools

This course requires students to participate in or submit assignments using desktop or cloud-based applications.

- VMWare

Course Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the [Student Regulations](#) page of the Maricopa Community College District website.

Class Procedures

- Classes will include lecture, discussion, and hands-on computer work.
- Complete assigned readings, quizzes and simulations <u>prior</u> to class and take notes during class. Many concepts presented are not in the textbook and will be included on the exams.
- Review your class notes after each class session.
- Do not surf the Internet or Text Message during class!
- Turn off cell phones during class!
- It is a college policy to provide reasonable accommodations to students with disabilities. If you have a physical, psychological, or learning disability, and would like to request academic accommodations (i.e., test accommodation, note taker, sign language interpreter, etc.) please contact the Disability Services Office, SC-125, (480) 423-6517.

Tests and Homework

- Homework/In-class assignments are intended to sharpen your knowledge of the course materials and to prepare you for exams. Every assignment will build on the previous one. Homework assignments are due at **11:59 PM** on the due date. Late homework will ONLY be accepted on a case-by-case basis. Allow 6 hours for homework assignments per week.

- To receive full credit on a homework assignment, you must meet **ALL** the assignment objectives **AND** your work must be professional (i.e., no typos, no spelling errors, no grammatical errors, etc.).
- <u>Missed in-class assignments, quizzes, and participation activities **cannot be made-up**</u>.
- This class has extra credit opportunities built into it, both in the form of bonus point questions in quizzes and regular assignments as well as stand-alone extra credit assignments. Stand-alone extra credit assignments must be turned in by the due date- late submissions will not be accepted.
- The midterm exam for this class consists of two parts- both of which must be completed by the due date to pass this class:
  - Skills exam
    - The skills exam will account for approximately 2/3rds of the exam grade and will be taken online. This is a project-based exam where you will be given the materials needed to complete it.
  - Concepts exam
    - The concepts exam will account for approximately 1/3rd of the exam grade. This exam will be comprised of multiple-choice questions and will be taken online.
- Rather than a final exam, this class requires that you complete a semester database project based on a listing of minimum requirements (provided to the student within the Semester Project Module in Canvas). You MUST complete the semester project to pass the class.

Academic Conduct

In addition to the general college Academic Honesty policy stated in the Canvas course under the Course and College Policies section, the following additional polices apply to this course:

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the College or other sanctions as specified in the Scottsdale Community College Academic Integrity Policy. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism or facilitating such activities. Specific examples of academic misconduct relating to this course include:

- Copying another student's work and turning it in as one's own.
- Submitting another student's file as your own.

- Working jointly on an assignment, with each student turning in a copy of the joint product, creating the impression that each student completed the work independently.

Each student must complete his/her own work on his/her own computer with his/her own data files. If you are caught turning in another student's work, **both students will receive a zero and may be withdrawn for academic misconduct from the class with a grade of 'Y'. Cheating on an exam will result in immediate withdrawal for academic misconduct from the course with a grade of 'Y'.**

CIS Tutoring Lab

We urge CIS students to utilize the **CIS Tutoring Lab** located in CM446. This lab is used for hands-on classwork and is staffed with CIS instructors. Any SCC student currently enrolled in a CIS course may use this lab. A detailed lab schedule with instructor-assigned times and locations is posted in your Canvas course

For **Spring 2023**, the CIS Tutoring Lab will host both in-person and virtual tutoring hours. Please check the current schedule for times and locations.

Grading Standards & Practices

Grade Scale

Letter Grade	Points Range
A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

I (Incomplete): Only under extreme circumstances will I grant an incomplete (2 week extension to complete the class). To qualify, a student must have:

- Completed both portions of the midterm
- A <u>maximum</u> of 3 assignments and 2 quizzes left to complete (5 total)

Assignments

Assignment Name	Points	Percent of Grade
Assignments and Quizzes	855	63%
Unit Exams	200	15%
Semester Project	300	22%
TOTAL:	**1365**	**100%**

Course Outline (Weekly Lecture Topics)

Class #	Date	Topic(s)
1	1/19	Class intro, Introduction to SQL
2	1/26	Working with the SELECT and WHERE clauses
3	2/3	Table Joins
4	2/10	Summarizing Data
5	**2/16**	**No class (instructor will be out of town)**
6	2/23	Subqueries
7	3/2	Built-in Functions/Action Scripts
8	3/9	Database Design Fundamentals
9	**3/16**	**No class (spring break)**
10	3/23	Midterm Exam
11	3/30	Database and Table Scripting
12	4/6	Views
13	4/13	T-SQL
14	4/20	Stored Procedures
15	4/27	UDF's and Triggers
16	5/4	Database Administration
17	**5/10**	**(Wednesday – 6pm)** Semester Project presentations

Response Time

Students can expect a response time of 24 – 48 hours for the instructor to respond to messages sent via the Canvas Learning Management System or email. Students can expect assignments to be graded within 1 week of the assignment's due date.

Attendance Policy

This class is an in-person class and attendance is required. In accordance with state law, attendance will be taken during each class. If you are absent, arrive late for class, or leave early, you are responsible for ALL material covered during that class meeting. After **3** absences (excused or unexcused), you may be withdrawn from this class. If you decide to drop this class, you must submit a Withdrawal Form to officially withdraw.

The official date to request a withdrawal from your instructor in this course is: <mark>Monday, March 6, 2023</mark>

Instructional Contact Hours (Seat Time)

This is a three (3) credit-hour course. Plan to spend at least three hours on course content or seat time (direct instruction) and six hours on homework weekly. Accelerated courses will require additional time per week.

SCC Land Acknowledgement

Scottsdale Community College (SCC) credits the diverse Indigenous people still connected to the land on which we gather. Our college resides on the tribal territory of the Salt River Pima-Maricopa Indian Community (SRP-MIC). SRP-MIC is a federally recognized nation - one of 22 Arizona Indigenous nations and one of 574 across the United States. Attached to this physical space is a painful history of forced removal and the resulting intentional genocide of its Indigenous people. We remain appreciative of our ability to teach, learn and serve in a space of such importance and reverence.

SCC acknowledges the land on which we are situated today as the traditional land and home, established by Executive Order on June 14, 1879, of two distinct tribal nations: the Onk Akimel O'odham (Pima) and the Xalychidom Piipaash (Maricopa) people. We take this opportunity to thank the original caretakers of this land. We offer our respect to their Elders and to all O'odham and Piipaash people of the past, present and future.

Online Tutoring

SCC's tutors are available online to help with your courses. You may work with an SCC tutor remotely using Google Meet, your phone, or email. Visit the [SCC Tutoring & Learning Centers](#) page for detailed information on the five learning center's hours and procedures.

As much as possible, it is highly recommended that you utilize SCC tutors since they are more familiar with SCC coursework, instructor expectations, and assignments; however, if you need to work with a tutor outside regular hours, online and hybrid students now have access to a 24/7 online tutoring service called Brainfuse. Brainfuse provides online tutoring in a variety of academic subjects. Each student may utilize up to 6 hours of online tutoring through Brainfuse per semester, and has the option of requesting additional time if needed.

To access Brainfuse and begin working with a tutor:

1. Visit the [SCC Online Tutoring Services Through Brainfuse](#) page (https://www.scottsdalecc.edu/students/tutoring/online-tutoring)
2. Click the **Visit a tutor online** button
3. Enter your MEID and password
4. Choose your topic and subject
5. Click the **Connect** button

Please use your time effectively and be prepared with your questions before you connect to a tutor. Tutors and students communicate in real-time so whatever you type, draw, or share on the screen, the tutor sees, and vice versa. You may also want to have screenshots ready if applicable. All Brainfuse sessions are recorded for review later.

Students are responsible for the information contained in this syllabus, the Syllabus page in your Canvas course and the **College Policies & Student Services** page found in the First Steps module of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.