

## CIT178 Course Schedule

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### **Week 1 (1/14-1/23): Course Information and Intro to Databases and SQL (Assignments/Quizzes are due by Sunday,1/23 11:59pm)**

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- Course overview video
- Welcome message
- Syllabus, Schedule, and Course Information
- Student Profile Glossary
- Discussion: Introductions
- Chapter 1- An introduction to relational databases and SQL
- Required Software and Installation Instructions (must have installed before week 2)

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### **Week 2(1/23-1/30): Using SSMS, Retrieving Data from One Table (Assignments/Quizzes are due by Sunday,1/30 11:59pm)**

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- Chapter 2- How to use the Management Studio
- Chapter 2 Lab Assignment
- Lecture/demo: Chapter 3- How to retrieve data from a single table
- Chapter 3 Textbook Assignment

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### **Week 3 (1/30-2/6): Retrieving Data from Multiple Tables (Assignments/Quizzes are due by Sunday,2/6 11:59pm)**

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- Chapter 4- How to retrieve data from two or more tables
- Textbook Assignment
- Lab Assignment
- Unit 1 Quiz (Chapters 1,2,3 and 4)

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### **Week 4 (2/6-2/13): Database Design (Assignments/Quizzes are due by Sunday,2/13 11:59pm)**

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- Chapter 8: How to work with data types
- Chapter 10: How to design a database
- Textbook Assignment

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**Week 5 (2/13-2/20): Database Design Lab**  
**(Assignments/Quizzes are due by Sunday, 2/20 11:59pm)**

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- Final Project Lab Assignment
- Discussion: Legal and ethical issues of data sharing

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**Week 6 (2/20-2/27): Creating DB tables using SQL and SSMS commands**  
**(Assignments/Quizzes due by Sunday, 2/27 11:59pm)**

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- Chapter 11: How to create a database and its tables with SQL Statements
- Chapter 12: How to create a database and its tables with Management Studio
- Textbook Assignment
- Final Project Milestone #2 Lab Assignment
- Unit 2 Quiz (Chapters 8,10,11 and 12)

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**Week 7 (2/27-3/6): Inserting, Updating and Deleting Data and Final Project Milestone #2 & Showcase**  
**(Assignments/Quizzes are due by Sunday, 3/6 11:59pm)**

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- Chapter 7: How to insert, update, and delete data
- Textbook Assignment
- Final Project Milestone #2 Lab Assignment
- Final Project Mini-Showcase

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**Week 8 (3/6-3/13): Using Summary Queries**  
**(Assignments/Quizzes are due by Sunday, 3/13 11:59pm)**

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- Chapter 5: How to code summary queries
- Textbook Assignment
- Final Project Milestone #3 Lab Assignment

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**Week 9 (3/13-3/20): Subqueries**  
(Assignments/Quizzes are due by Sunday, 3/20 11:59pm)

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- Chapter 6: How to code subqueries
- Textbook Assignment
- Lab assignment
- Unit 3 Quiz (chapters 5,6 and 7)

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**Week 10 (3/20-3/27): Working with Functions and Views**  
(Assignments/Quizzes are due by Sunday,3/27 11:59pm)

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- Chapter 9: How to work with functions
- Chapter 9: Textbook Assignment
- Chapter 9: Lab assignment
- Chapter 13: How to work with views
- Chapter 13 Textbook Assignment
- Final Project Milestone #3 Lab Assignment

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**SPRING BREAK 3/28 – 4/3**

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**Week 11 (4/3-4/10): Coding Scripts**  
(Assignments/Quizzes are due by Sunday,4/10 11:59pm)

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- Chapter 14: How to code scripts
- Textbook Assignment
- Lab assignment
- Unit 4 Quiz (Chapters 9, 13 and 14)

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**Week 12(4/10-4/17): Stored Procedures, Functions and Triggers  
(Assignments/Quizzes are due by Sunday,4/17 11:59pm)**

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- Chapter 15: How to code stored procedures, functions, and triggers
- Textbook Assignment
- Final Project Milestone #3 Lab Assignment

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**Week 13 (4/17-4/24): Transaction Processing & Database Security, Term  
Project Milestone #3 and Showcase (Assignments/Quizzes are due by  
Monday,4/24 11:59pm)**

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- Chapter 16: How to manage transactions and locking
- Textbook Assignment
- Chapter 17: How to manage database security
- Textbook Assignment
- Unit 5 Quiz (chapters 15,16 and 17)
- Discussion: Final Project Showcase
- Certiport assignment – create an account or login to your account

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**Week 14 (4/24-5/1): Project Showcase Discussion, GitHub, ePortfolio and  
Certification Exam (Assignments/Discussions/Exams are due by Sunday,5/1  
11:59 pm )**

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- Discussion Forum: Reviewing classmates' projects
- GitHub assignment – upload your final project to GitHub
- ePortfolio assignment – link your GitHub repo into your ePortfolio
- Gmetrix Practice Test
- Study for your certification exam

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**Week 15 (4/26-5/6): Database Fundamentals Certification Exam**  
(Please check the testing schedule posted in Moodle for final exam dates and times.)

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- Certification Exam at the professional testing center in the Parsons-Stulen building (second floor)

**Syllabus Changes:** The instructor reserves the right to make changes to the syllabus and will inform the class of any changes.