CIS 148-65: Introduction to SQL and Database Design
Fall 2022

Course Description

Introduction to SQL and Database Design gives the student experience in designing and creating databases using several database management systems (DBMS). Students will use relational database theory to design databases and will learn structured query language (SQL) to select, insert, update and delete data. (Fall & Spring Only) Two hours lecture each week. Two hours laboratory each week. Three Credits. Three billable hours.

Course Start and End Dates

8/29/2022 - 12/16/2022

Days and Time

Tuesday / Thursday @ 8:00am until 9:20am

Room Location

Learning Resource Center: L-281

Instructor

Prof Mike Broyles

Office Hours

By Appointment

Office Location

MS Teams

Email

mbroyles@carrollcc.edu
Faculty will respond to message from students within 48 hours.

Phone

Will respond to emails and/or direct messages on Microsoft Teams

CARROLL COMMUNITY COLLEGE
Division of Business & Technology

Division Chair: Robert (Rob) Brown

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Division Administrative Associate: Donna Kiple

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Required Materials

- Textbook: **ISBN:** 9781337670562 - **Database Systems: Design, Implementation, & Management** by Morris.
- Computer with Internet access capable of streaming instructional video
- Install DBeaver (Database IDE): https://dbeaver.io/

Course Objectives

1. Design databases using normalization techniques. (PG2)
2. Install one or more database management systems. (PG2)
3. Use SQL to select, insert, update and delete data from a database. (PG2)
4. Use Data Manipulation Language (DML) scripts to create and modify database (PG2)
5. Use SQL aggregate functions to summarize data. (PG2)
6. Troubleshoot and optimize queries (PG2, PG4)
7. Use SQL to filter, sort and format data. (PG2)

Course Schedule

Date	Topics to be Covered	Reading
Aug 30 / Sept 1	Intro to Database Concepts	Chapters 1, 2
Sept 6 / Sept 7	Intro to Database Concepts (continued)	Chapters 1, 2
Sept 13 / Sept 15	Database Modeling	Chapters 3, 4, 5
Sept 20 / Sept 22	Database Modeling (continued)	Chapters 3, 4, 5
Sept 27 / Sept 29	Database Modeling (continued)	Chapters 3, 4, 5
Oct 4 / Oct 6	Database Table Normalization	Chapter 6
Oct 11 / Oct 13	Structured Query Language (SQL)	Chapters 7, 8
Oct 18 / Oct 20	SQL (continued)	Chapters 7, 8
Oct 25 / Oct 27	SQL (continued)	Chapters 7, 8
Nov 1 / Nov 3	SQL (continued)	Chapters 7, 8
Nov 8 / Nov 10	SQL (continued)	Chapters 7, 8
Nov 15 / Nov 17	Database Design	Chapter 9
Nov 22 / ~~Nov 24~~	Database Design	Chapter 9
Nov 29 / Dec 1	Database Design	Chapter 9
Dec 6 / Dec 8	Review Week	Review Week

Dec 13		FINAL EXAM

Course Grade Structure

90 – 100%	A	70 – 76%	C
87 – 89%	B+	67 – 69%	D+
80 – 86%	B	60 – 66%	D
77 – 79%	C+	Below 60%	F

Attendance Policy

Regular attendance and class participation are necessary for you to successfully achieve the objectives in your courses. Occasionally students experience emergencies (in most cases considered excused absences) that prevent them from attending class. If you must miss a class, please provide as much notice as possible. You should email or call your instructor prior to the missed class. Your instructor may request an approved written excuse when you return. If you miss class due to one or more unexcused absences, your grade may be impacted, especially in classes that require class participation. Students who have more than the equivalent of one week of unexcused absences, as determined by the number of scheduled class meetings per week (e.g., if your class meets twice a week = two unexcused absences) may miss important work that cannot be made up. Please refer to information provided in each course syllabus pertaining to how your course grade will be calculated and the faculty timeline for providing feedback on assignments.

The College attendance policy: College Attendance Policy

Refund, Withdrawal, and Audit Policy

The refund period ends September 6, 2022 - in the Records office or 11:59 p.m. via Student Planning (some students must contact their advisor during business hours). This is also the last day to drop without a W grade. The last day to withdraw with a W grade or to audit a class is November 02, 2022 at 11:59 pm. All students must contact their advisor for assistance with a Withdraw or Audit.

A student wishing to withdraw from or audit some or all of their courses should understand that such withdrawal or audit is not effective until the student completes the withdrawal or audit process by emailing their advisor (Check Starfish or call 410-386-8435 for an appointment). Audit approval is at the discretion of the professor.

To qualify for a refund, students must officially drop a course.

The College refund dates: Refund and Withdraw Policy and Dates

Code of Integrity for Academic and Behavioral Standards

Carroll Community College has a **Code of Integrity for Academic and Behavioral Standards** to foster and promote a sense of respect and consideration of others and uphold academic honesty and social conduct (see the College Catalog).

Sometimes cheating can be unintentional.   However, it still has consequences. You can empower yourself by learning how to avoid cheating.

The College has resources to help you. Seek help from your professors, the library, and/or the Academic Services.

All the following are forms of academic dishonesty that can reduce your opportunities to maximize your learning:

- Sharing course assignments or assessments outside of class unless authorized by your professor.
- Sharing course materials, exams, quiz questions, or solutions with current, future, or prospective students.
- Sharing and using sites such as Chegg, Course Hero, and other contract cheating websites or apps.
- Posting your work or the work of others on the Internet
- Posting excerpts from course exams.

Doing any of the above will be viewed as a violation of Academic Integrity. The consequences of cheating could result in an Academic Integrity Meeting and compromise your future goals.

Communicating Concerns about the Course

If a student has a concern about this class, the student should follow the steps below per the Formal Complaint Process:

1. Contact your professor. See contact information on page 1 of this syllabus.
2. If the concern is not resolved by the professor, then the student should complete the complaint form and submit it to the professor's supervisor, Rob Brown, rbrown@carrollcc.edu or 410-386-8224.

Student Health and Wellness

Carroll Community College is here to help you manage personal challenges that may threaten your well-being.

College students often experience issues that may interfere with academic success, such as academic stress; sleep problems; juggling responsibilities; the need for housing, food, or

transportation; life events; relationship concerns; or feelings of anxiety, hopelessness, or depression. If you or a friend is struggling, we strongly encourage you to seek support. Helpful, effective, and confidential resources are available on campus, and most are free of charge.

- If you are struggling with this class, please check in during student hours or contact me by email at mbroyles@carrollcc.edu
- Check in with your academic advisor if you are struggling in multiple classes, unsure whether you are making the most of your time at Carroll Community College, or unsure what academic resources are available at Carroll.
- Access services by completing a 'Report A Student Concern' by raising your hand on Starfish or 'Student Concern & Incident Report Form'.
  Visit **https://www.carrollcc.edu/Student-Care-And-Integrity** for additional information and resources.

- **The Student Care and Integrity office is providing 24/7, confidential, remote crisis services through the Student Assistance Program (SAP). Students can call 1-800-327-2251 and speak with an expert counselor or download the BHS APP, or visit https://www.BHSonline.com Username: CARROLLCC**

In the event I suspect you need additional support, I will express my concerns and the reasons for them, and remind you of resources that might be helpful to you. It is not my intention to know the details of what might be bothering you, but to let you know I am concerned and that help, if needed, is available.

Getting help is a smart and courageous thing to do -- for yourself *and* for those who care about you.

Academic Center
Click here to connect to our tutoring team. We are here to support you!

Additional Policies and Information
The following policies are detailed in the Learning Management System:
> Inclement Weather
> Disability Services
> Title IX Compliance