

### Course Information

Semester: 2020 Fall

Number: CS 150A

Title: Intro to SQL Databases & NoSQL

Meeting Location: Online (Canvas)

Meeting Date/Time: There are no required meeting dates or times.

Credit Hours: 3

Prerequisites: None

### Time Required (units)

The expectation is that for every unit of a class, it will require 3 hours of the student's time for that material. Your circumstances may differ, depending on your need.

Class units: 3

Expected time per week: 9 hours / week

### Course Materials

Required Text: Murach's MySQL 3rd ed.

Course Description: A course in the use of SQL database management systems to create, query, and update database tables. The course covers both the syntax and the logic of the major features of the SQL language. It also covers a brief overview of NoSQL (Not Only SQL) data sources such as JSON, and MongoDB.

### Major Student Learning Outcomes

Upon completion of this course, a student will be able to:

Write and implement SQL statements to create and modify database tables with complex relationships, constraints and views.

Use all of the major components of the SQL language for accessing data to analyze business requirements, designing and implementing queries that satisfy those requirements.

Insert, update and delete data in the database using SQL.

Write and implement code to retrieve data from NoSQL stores.

Compare the trade-offs between SQL and NoSQL.

### Instructor Info

Name: Dr. Daniel O'Leary

Website: <https://sites.google.com/mail.ccsf.edu/oleary/>

Email: email through Canvas preferred. Alternatively, [doleary@ccsf.edu](mailto:doleary@ccsf.edu).

Office Hours Location: ConferZoom

Office Hours Date/Time: Monday/Thursday 1 PM - 2 PM

### Add/Waitlist Policy

If the class is full, students are given the option to be added to the class waitlist through the CCSF registration process. Students will be added to the class in the order in which they appear on the waitlist as seats open up in the classroom. Students will be added to the class up to one week after the beginning of class. More information about waitlists and CCSF registration can be found on the school's website. <https://www.ccsf.edu/admissions-recordsregistration/waitlist-information>

### Grading Scale

Midterm and final grades will be assigned on the following percentage scale:

A: 90% to 100%

B: 80% to 89%

C: 70% to 79%

D: 60% to 69%

F: 0% to 69%

Students who do not take the final exam will be assigned a grade of "FW". An "FW" is an "F" grade that also indicates that the student did not complete the course.

#### Grading

Your final score will be made up of the following components:

20% - Discussions

30% - Homework

20% - Midterm

30% - Final Examination

#### Late Policy

Discussions: Posts are due on Wednesday. Replies are due on Sunday. Late submission will receive a 0, as these discussion require timely interaction between students.

Homework: Homework are due on Sundays. Submissions will be accepted up until Wednesdays (up to 3 days late) without penalty. Solutions are posted after 3 days.

Submissions after the 3 day grace period will not be accepted, as the homework solutions will have been posted.

Midterm and Final: The midterm and final are available for one week, to be completed before the due date at the time of your choosing. Late submissions cannot be accepted and will receive a 0, as these due dates are dictated by the dates when faculty must submit midterm and final grades.

#### Attendance Policy

Students must demonstrate timely and consistent participation. We will meet this requirement through the submission of discussions and homework. If you miss a full week of submissions, you may be dropped. If you must miss a week or more of material, contact the instructor.

#### Special accommodations

Students with disabilities who need academic accommodations should request them from the Disabled Students Programs and Services (DSPS) located in the Rosenberg Library, Room 323 on the Ocean Campus. Telephone: 415-452-5481 (V) 415-452-5451 (TDD).

#### Cheating

Cheating of any kind will not be tolerated. It will result in a grade of 0 on the assignment or test in question and can be cause for a failed grade and disciplinary action, including suspension or expulsion. Cheating on homework means copying code or answers from someone else.

Getting help from others is not cheating as long as you're not copying their work or allowing them to copy yours. On the exams, any collaboration or copying constitutes cheating.

#### Software and Computer Access

This class requires access to a computer and an internet connection that can accommodate streaming video.