



COP2700 Course Syllabus

Data Structures (SQL)

Course/CRN/Semester: COP2700 / 81171 / Fall 2026

Credit Hours: 3

Pre-requisites: None

Contact Information

Instructor

Name: Dr. Wendy Payne

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Office Location: CHC 204

Office Hours (Days & Times): See Canvas for details

Response Time: See Canvas for details

Division Chair

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Course Information

Catalog Description:

This course provides students with a solid foundation in SQL, which provides a means for accessing and manipulating databases. Students will be familiarized with the structure of databases and introduced to the relational database model. Students will learn the fundamentals of the SQL language, including how to: create and design tables; carry out queries; add and delete data from a database; create views, and handle security.

Student Learning Outcomes:

Upon successful completion of this course, you will be able to:

CO1. Describe SQL and its relation to database operations

Given a specific scenario:

CO2. Develop SQL queries to extract data stored in a single table

CO3. Develop SQL queries to extract data stored in multiple tables

CO4. Develop SQL queries to extract and summarize table data

CO5. Develop SQL queries to update data stored in a single table

CO6. Create tables in Oracle

CO7. Create indexes in Oracle and describe the importance

Course Materials & Resources:

Murach's Oracle SQL and PL/SQL 3rd Edition ISBN: 978-1-943873-19-7

Delivery Method:

This is a hybrid course, which means we'll meet in person each week while also completing some learning activities online. We'll use Canvas for course materials, assignments, announcements, and other resources, so be sure to check the course site regularly (at least every 48 hours) to stay up to date. In addition to our weekly class meetings, you'll complete online components such as modules, lectures, discussions, or exams. Even though there's some flexibility, this is not a self-paced course. There are weekly expectations and due dates to help keep you on track, so be sure to follow the schedule in the syllabus.

To set yourself up for success, make sure you have access to a reliable computer, internet connection, and the ability to download and install SQL Developer.

Student Expectations

In this course, communication and feedback will occur through various channels, including Canvas Inbox, Canvas Announcements, Canvas Discussions, assignment feedback, and instructor office hours. Review the statements below so that you understand the expectations for communication.

As a student at Gulf Coast State College, you are expected to:

- **Adhere to Course Guidelines:** Follow the guidelines detailed in the course syllabus, along with any additional instructions provided by the instructor. This includes understanding and complying with the course objectives, grading criteria, and academic policies.
- **Maintain Regular Contact:** Keep in touch with your instructor and classmates via Canvas email or other designated communication channels. Regular contact helps clarify doubts, share ideas, and foster a collaborative learning environment.
- **Active Participation:** Engage actively in class discussions and submit assignments on time. Your active participation is crucial for your academic success and contributes to a vibrant learning community.

As your instructor, my commitment to you is to:

- **Provide Timely Feedback:** I will review and provide feedback on your assignments and submissions promptly. My goal is to help you understand your strengths and areas for improvement, which is crucial for your academic growth.
- **Respond Via Canvas Inbox:** I will respond to your Canvas emails within 24 hours (excluding weekends), unless otherwise noted. I understand the importance of clear and timely communication in addressing your questions and concerns.
- **Post Regular Announcements:** To keep you updated and help you manage your time effectively; I will send out weekly reminders via Canvas email. These reminders will include important dates, upcoming assignments, and any changes to the course schedule.
- **Maintain Weekly Office Hours:** I will maintain regular weekly office hours, but I can also be available by appointment. This is to ensure I'm available for any questions or concerns that may come up during the week.

Tentative Course Schedule

Outline of Assignments (title, description, required readings)

<u>Week</u>	<u>Dates</u>	<u>Topic</u>	<u>Assignments/Exam Schedule</u>
1	Aug. 17 – 23	Introductions/Connections	Connections Lab Due Sunday, August 23
2	Aug. 24 - 30	Chapter 2 SQL Developer Chapter 3 Retrieving data from single table part I	Chapter 3 Part 1 Lab Due Thursday, August 27
3	Aug. 31 – Sept 6	Chapter 9 Design a Database	Chapter 9 Lab Due Thursday, Sept. 3
4	Sept. 7 – 13 (No classes Sept. 7 th Labor Day – Campus Closed)	Exam 1	Exam #1 building a DBMS, Retrieving data, ERDs
5	Sept. 14 - 20	Chapter 10 Tables and Constraints	Chapter 10 Lab Due Thursday, Sept. 10

6	Sept. 21 - 27	Chapter 10 Indexes and Sequences Chapter 7 Adding data to tables	Chapters 10 & 7 Lab Due Thursday, Sept. 17
7	Sept. 28 - Oct. 4	Chapter 3 Retrieving data from single table part II	Chapter 3 Part 2 Lab Due Thursday, Sept. 24
8	Oct. 5 – 11 (Oct. 8th - 9th Fall break)	Exam 2	Exam #2 Creating tables, using constraints, indexes, sequences, retrieving data
9	Oct. 12 – 18 (Oct. 14 th withdrawal deadline)	Chapter 4 Inner Joins	Chapter 4 Inner Joins Lab Due Thursday, Oct. 22
10	Oct. 19 - 25	Chapter 4 Outer Joins	Chapter 4 Outer Joins Lab Due Thursday, Oct. 29
11	Oct. 26 - Nov. 1	Exam 3	Exam #3 inner and outer joins
12	Nov. 2 – 8	Chapter 5 Summary Queries	Chapter 5 Lab Due Thursday, Nov. 5
13	Nov. 9 - 15 (Nov. 11th Veterans Day Campus Closed)	Chapter 8 – Functions part I	Chapter 8 Format Strings Lab Due Thursday, Nov. 12
14	Nov. 16 – 22	Chapter 8 – Functions part II	Chapter 8 Part 2 Lab Due Thursday, Nov. 19
15	Nov. 23 – 29 (Nov. 25 th – 29 th Thanksgiving Holiday Campus Closed)	Exam 4	Exam #4 group by, having, formatting
16	Nov. 30 – Dec. 6	Review For Final	
17	Dec. 7 – 10	Final Exam	FINAL WEEK – Exam Tuesday, Dec. 8 at 11am

Grading

GCSC Grading Scale

Percentage	Letter Grade
90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
0 - 59%	F

Calculation of Grades

Category	Description	Quantity	# Dropped	% Of Grade
Chapter Labs (lowest score dropped)	Chapter Lab Assessments	11	1	15%
Exams	Chapter Exams	4	0	50%
Final Exam	Final Exam	1	0	35%

Course Policies

Accessibility Statement

Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Resources. Appropriate academic accommodations will be determined based on the documented needs of the student. Please visit [GCSC's Student Accessibility Resource \(SAR\) webpage](#) to learn more. For information regarding the registration process, email sar@gulfcoast.edu or call 850-747-3243.

Attendance Policy

Regular class attendance and participation are significant factors that help to promote success in college. Students are expected to attend all class meetings of all courses for which they are registered.

You are expected to know the instructor's specific attendance policy, as stated in the syllabus for each course. In the event of absence, you should contact your instructor as soon as possible to indicate the reason and to inquire whether make-up work is possible. (Make-up work is offered solely at the discretion of your professor.)

If your absences in a class become excessive, as stated in the course syllabus, your professor may contact you, indicating that further absence may result in your withdrawal from the course. Your professor can withdraw you from a course for excessive absences without your permission.

Instructors will monitor attendance at the beginning of each semester. If you are not in attendance during this period, you may be withdrawn from the course. You will be financially responsible for the course and a "W or NS" will appear on your transcript. Withdrawal from a course may also have implications for financial aid.

Make-Up Work Policy

Students must take exams as scheduled during the time allotted. Notify your instructor BEFORE the exam start day/time if you have an emergency and miss an exam. If exams are not made up before the next class meeting, a grade of "0" will be assigned.

For any other assignments, instructor approval before the assignment deadline is required except in the instance of emergencies.

Withdrawal Policy

Two withdrawals are permitted per credit course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.). There are two kinds of withdrawals---student and administrative.

- *Student Withdrawal (W1)* - Students wishing to withdraw must complete the online Student Withdrawal Form before the scheduled withdrawal deadline as published in the College catalog. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as a grade of "W." The withdrawal deadline for an off-term or condensed term is one week after midterm.
- *Administrative Withdrawal (W2)* – A faculty member may withdraw a student up to the published withdrawal deadline for violation of the class attendance policy in which case the student will receive a grade of "W." The withdrawal deadline for an off-term or condensed term is one week after midterm.

Students cannot withdraw from developmental studies courses (college-preparatory classes) after the drop/add period without written permission from their instructor and/or their academic advisor.

Academic Integrity

Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an educational environment. GCSC professors report every instance of student academic misconduct to the college for inclusion on the student's records. Most course syllabi include an academic honesty policy and the consequences for violating this policy. Familiarize yourself with course policies regarding authorized or unauthorized use of AI to avoid the pitfalls of academic dishonesty.

The following definitions will apply:

"Cheating"

includes but is not limited to use of any unauthorized assistance in taking quizzes, tests, or examinations; dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; the acquisition without permission of tests or other academic materials belonging to a member of the College's faculty.

"Plagiarism"

includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment as well as the purchase of papers or projects. It can also include overuse of an editing program like Grammarly or submitting work written by an Artificial Intelligence (AI) generator like ChatGPT. Make certain to consult your course syllabi for your instructor's guidelines of AI material.

"Self-plagiarism"

occurs when a student submits the same or considerably similar document to fulfill requirements in different classes. For example, if a student submits a term paper in Religion they originally wrote for an English class, this is self-plagiarism. Once a paper receives a grade in one class, it cannot be submitted again for another class.

"Generative Artificial Intelligence (AI)"

is technology that uses machine learning to create new content, such as text, images or code, based on user input. These systems are trained on vast amounts of data, including large language models and image or code generators. Common examples include ChatGPT, GitHub, Copilot, Google Gemini, Perplexity, and the Grammarly AI function.

Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or 0) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the college.

Classroom Recording

In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines in the GCSC Student Handbook.

Generative Artificial Intelligence (AI) Policy

The use of generative AI tools in academic work requires clear guidelines to maintain academic integrity. Please review the policy selected for this course regarding the use of AI tools such as ChatGPT, Copilot, Grammarly's AI features, and similar platforms for assignments, research, and other coursework.

See the student handbook for further information. Students with questions about acceptable use should consult their instructor.

Prohibited Use of AI

The use of AI-generated content is strictly prohibited in all assignments, coursework, and throughout all stages of the work process, such as brainstorming, outlining, or drafting. This includes but is not limited to, tools such as ChatGPT, Copilot, and Grammarly's AI function. Use of AI tools will be treated as a violation of academic integrity and may result in penalties, including a zero on the assignment and additional disciplinary actions as outlined in the college's academic integrity policy.

Anti-Discrimination Policy

Gulf Coast State College does not discriminate against any person in its programs, activities, policies or procedures on the basis of race, ethnicity, color, national origin, marital status, religion, age, gender,

sex, pregnancy, sexual orientation, gender identity, genetic information, disability, or veteran status. All questions or inquiries regarding compliance with laws relating to non-discrimination and all complaints regarding sexual misconduct or discrimination may be directed to Amanda Reed, Executive Director of Human Resources/Title II/504/Title IX Coordinator and Employment Equity Officer, Gulf Coast State College, 5230 W. US Highway 98, Panama City, FL 32401; 850-769-1551, ext. 3516. Rules, policies, fees, and courses described in this catalog are subject to change without notice.

Syllabus Policy

For any syllabus posted prior to the beginning of the term, the instructor reserves the right to make minor changes prior to or during the term. The instructor will notify students via e-mail or Canvas announcement when changes are made in the requirements and/or grading of the course.

Student Support Resources

Gulf Coast State College is committed to providing you with the resources you need for success as a student and beyond. View all the academic and student support resources provided at GCSC on the [Student Services web page](#).

Course Technology & Support

To successfully participate in this course, students must have basic computer and digital information literacy skills and meet the following technology requirements:

- **Computer:**
 - A Windows computer or MacBook computer is required for this course. Chromebooks cannot be used to complete course requirements.
 - Up-to-date web browser to an external site. that supports the Canvas learning management system; please refer to the system requirements to an external site. for compatibility and information on using the Canvas app on mobile devices.
- **Internet Speed:**
 - Minimum bandwidth of 8 Mbps upload/download speed to effectively engage in online activities and access multimedia.
- **Office 365 software:**
 - Available for free download through GCSC Information Technology Services (ITS).
- **File Storage Cloud Solution or USB Drive**
- **Computer with the following software/access**
 - The ability to install SQL Developer
 - Internet access

If you need technical support, contact the ITS Help Desk, available 24/7 at (850) 913-3303.