COURSE DESCRIPTION

Prerequisites: Basic understanding of problem solving and logic structures used with computers obtained in ITSE 1429 or equivalent experiences approved by instructor consent.

An introduction to the design and creation of relational databases using Oracle. Topics include storing, retrieving, updating, and displaying data using Structured Query Language (SQL). This course may be repeated if topics and learning outcomes vary.

This is a 4 credit hour course. (3 lec., 4 lab.)

WECM END-OF-COURSE OUTCOMES: Write Structured Query Language (SQL) statements using Oracle; select and sort data; and produce reports with SQL*Plus; create and manage tables which include constraints; create Views and other database objects.

Student Learning Outcomes:

Upon successful completion of ITSE 1445, students will be able to:

- Identify database terms, basic SQL statements, constraints, objects, functions, views and how SQL is used in application development.
- Produce reports with SQL creating and managing tables with various constraints, restrictions, and commands, data manipulation and transaction control, joins, functions, sub queries and merge.
- Reinforce skills by storing, retrieving and displaying data using SQL in the design and creation of relational databases based on assignment criteria.
- Demonstrate knowledge of SQL needed to pass the Introduction to Oracle SQL certification exam by creating, debugging and analyzing SQL statements in relational databases using Oracle.

COURSE MATERIALS


Email Address: (i.e. Ecc Webmail, Yahoo, Hotmail, etc.)

A student of this institution (El Centro College) is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
This is an online class.
All course work will be posted on eCampus. It is your responsibility to get the course notes, handouts, and laboratory assignments from eCampus. Your instructor will respond to all emails within 24 hours.

Major Course Requirements

Students will participate in Discussions addressing topics in each chapter
Students will complete Chapter Quizzes
Students will complete lab assignments and a Case Study which include:
  - Writing basic SQL syntax for assignments using the SELECT clause for queries and sub-queries, keywords, constraints, adding and deleting records, using Index commands, search conditions, joining data, utilizing single-row and multiple-row functions and creating views
  - Creating user accounts and apply data security measures
  - Applying SQL tools to debug and analyze code

Students will prepare for the Oracle Introduction to SQL Certification exam

Midterm, a Final Exam and completion of a Case Study will evaluate the student’s understanding of Oracle SQL concepts and knowledge presented in each chapter.

Subject Matter

Topics covered in the lecture portion of the course include:

Introduction to Oracle 11g, Certification & Installation
Overview of Database Concepts
Basic SQL SELECT Statements
Table Creation & Management
Constraints
Data Manipulation & Transaction Control
Additional Database Objects
User Creation & Management
Restricting Rows & Sorting Data
Joining Data from Multiple Tables
Selected Single-Row Functions
Group Functions
Sub-Queries & Merge
Views

Disclaimer
The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.
The instructor-of-record may provide additional information to enhance the course to meet the needs of the enrolled students, provided that the enhancements do not conflict with the official course syllabus.

**Policies**

Students should click on the links below and read all of these policies.

- [General institutional policies](#)
- [Course-related institutional policies](#)