

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**DEGREE CREDIT COURSE**

  x   Transfer Course   x   A.A. Degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:** CSIS 256 – Database Administration I

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 64

**BASIC SKILLS REQUIREMENTS:** Appropriate language and computational skills.

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** CSIS 252

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:**

Student will learn how to design, create, and maintain an Oracle database. Students will gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Students will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner. The lesson topics are reinforced with structured hands-on practices. CSU

**SPECIFIC COURSE OBJECTIVES:**

The successful student will be able to:

1. Manage tablespaces, segments, extents, and blocks.
2. Manage users, privileges, and resources. Create an operational database.
3. Start up and shut down an Oracle instance and database.
4. Manage Oracle database files.
5. Use Globalization Support features.

## **CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- I. Oracle Architectural Components
- II. Getting Started With Oracle Server
- III. Managing an Oracle Instance
- IV. Creating a Database
- V. Data Dictionary Content and Usage
- VI. Maintaining the Control File
- VII. Maintaining Redo Log Files
- VIII. Managing Tablespaces and Data Files
- IX. Storage Structure and Relationships
- X. Managing Undo Data
- XI. Managing Tables
- XII. Managing Indexes
- XIII. Maintaining Data Integrity
- XIV. Managing Password Security
- XV. Managing Users
- XVI. Managing Privileges
- XVII. Managing Roles
- XVIII. Using Globalization Support

## **REQUIRED READING:**

Theriault , Marlene, et al. *Oracle9i DBA 101*, Redwood City, CA: Oracle Press, 2003

## **SUGGESTED READING:** None

## **REQUIRED WRITING:**

Oracle database administration projects are assigned, requiring students to complete five or six lab exercises. Each lab will consist of a hands-on exercise applying theoretical principles learned in class. Labs must be well documented (at least one paragraph) in terms of their overall solution strategy.

## **OUTSIDE ASSIGNMENTS:**

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

## **INSTRUCTIONAL METHODOLOGY:**

### **Check all that apply:**

- lecture
- laboratory
- lecture-laboratory combination
- directed study

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**

Yes  No

**If yes, check all that apply:**

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

- 30-100% Assignments
- 0-30% Examinations

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**

Yes  No  Number of times course may be taken for credit:

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 ( C ) ( 2 ) ( A )

**CONTACT PERSON:** Steve Perry x2990

**SIGNATURES ON FILE:**