

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

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

COURSE NUMBER AND TITLE: CSIS 259 – Oracle PL/SQL Programing

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 the Oracle PL/SQL language, a flexible procedural extension to SQL, increases productivity, performance, scalability, portability and security. Student will use PL/SQL's tight integration with Oracle database that allows application developers to build and deploy distributed applications with considerable flexibility. In this course you learn how to utilize advanced techniques to design PL/SQL applications to solve complex business problems.

SPECIFIC COURSE OBJECTIVES:

The successful student will be able to:

1. Develop efficient advanced PL/SQL programs to access Oracle databases.
2. Manage data retrieval with explicit and implicit cursors.
3. Create stored procedures and functions for maximum reuse and minimum code maintenance.
4. Bulk bind collections to increase the speed of data movement operations.
5. Invoke native dynamic SQL to develop high-level abstract code.
6. Design applications using bodiless packages and other techniques.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. PL/SQL Fundamentals
- II. Maintaining Data with DML Statements
- III. Managing Data Retrieval with Cursors
- IV. Error Handling using Exceptions
- V. Debugging PL/SQL Blocks
- VI. Writing Store Procedures and Functions
- VII. Creating Packages
- VIII. Developing Safe Triggers
- IX. Collection Types

REQUIRED READING:

Allen , Christopher. *Oracle PL/SQL 101*, Redwood City, CA: Oracle Press, 2003

SUGGESTED READING: None

REQUIRED WRITING:

Oracle PL/SQL 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: