

**Regis University
School for Professional Studies**

**Course Syllabus
Summer 8W1 2008
5/5/08 to 6/29/08**

Instructor

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Course Number & Title

MSCD 650 PL/SQL Programming (3CR)

Course Description

PL/SQL Programming covers database development utilizing various types of sharable application code. This course emphasizes the learning of PL/SQL to create and manage procedures, functions, packages and triggers as a basis for complex application development. The course includes an extensive set of hands-on exercises to reinforce the weekly enabling objectives. Students will access an Oracle10g instance using SQL*Plus via thin client technology over the Internet.

Course Pre-requisite(s)

MSCD 600 Database Architecture and MSCD 610 Database Concepts

Class Meeting Location & Times

Online

Required Textbooks

Casteel, Joan. (2008). Oracle10g Developer: PL/SQL Programming. Boston, MA: Thomson Course Technology. ISBN-10: 1-4239-0136-3.

Exit Competencies

After successful completion of the course students should be able to:

1. Develop PL/SQL blocks of code and interact with the Oracle Server
2. Code decisions and repetitive actions in PL/SQL
3. Handle PL/SQL errors
4. Work with PL/SQL composite data types
5. Write subprograms – Procedures
6. Write subprograms – Functions
7. Write subprograms – Packages
8. Write database triggers

Course Outline & Schedule

Week	Reading Assignment	Topics
1	Oracle10g Developer: PL/SQL (Chapters 1 and 2)	<ul style="list-style-type: none"> ▪ Course Orientation ▪ Introduction to PL/SQL ▪ PL/SQL Block Structure
2	Oracle10g Developer: PL/SQL (Chapters 3 and 4)	<ul style="list-style-type: none"> ▪ Handling Data in PL/SQL Blocks ▪ Cursors and Exception Handling
3	Oracle10g Developer: PL/SQL (Chapter 5)	<ul style="list-style-type: none"> ▪ Creating Procedures
4	Oracle10g Developer: PL/SQL (Chapter 6)	<ul style="list-style-type: none"> ▪ Creating Functions
5	Oracle10g Developer: PL/SQL (Chapters 7 and 8)	<ul style="list-style-type: none"> ▪ Creating PL/SQL Packages ▪ Program Unit Dependencies
6	Oracle10g Developer: PL/SQL (Chapter 9)	<ul style="list-style-type: none"> ▪ Database Triggers
7	Oracle10g Developer: PL/SQL (Chapters 10, and 11)	<ul style="list-style-type: none"> ▪ Oracle-Supplied Packages ▪ Introduction to Dynamic SQL and Object Technology
8		<ul style="list-style-type: none"> ▪ Course Project ▪ Final Exam

Assignments and Due Dates

There are supporting documents detailing assignments 1-3 and the course project.

All assignments are due on Sunday evenings by 10pm MST, based on the Due Date schedule (below). Please mark this down on your calendar.

Assignment 1	June 22 nd , 2008
Assignment 2	Sunday – End of each week (weeks 1-6)
Assignment 3	Sunday – End of weeks 3, 5, and 7
Course Project	June 29 th , 2008
Final Exam	June 29 th , 2008

Method of Assessment

Formative evaluations are conducted through assignments 1-3, whereas summative evaluations are conducted through the course project and final exam. The course project is a practical assignment requiring the skilled use of SQL skills, PL/SQL skills and use of the database life cycle as a paradigm for development. There will be another document detailing the course project. The final exam is an assessment of concepts, foundational theory, and the student's ability to analyze and synthesize these with case studies, writing assignments, and criterion referenced questions.

Final Grade Determination

The following elements and percentages will determine the final grade in the course:

Online

Participation in the forum discussions	20%
Assignment 1	10%
Assignment 2	25%
Assignment 3	10%
Course Project	20%
Final Exam	<u>15%</u>
	100%

Method of Instruction (Online)

The course will use discussion forums, threaded discussion, applied research, practical laboratory exercises and graduate dialectic as the guiding methods of instruction.

Course Resources & Materials

Specific tools will include meta-search engines, scholarly databases, office productivity applications, and access to an Oracle10g database instance.

Course Policies

- (1) Students must adhere to the standards for academic integrity as outlined in the course module. Specifically, each student is responsible for maintaining academic integrity and intellectual honesty in his or her academic work. Students must:
 - (a) Submit his or her personal work and not that of another person.
 - (b) Not falsify data or information
 - (c) Not engage in cheating (e.g. giving or receiving help during examinations, acquiring and/or transmitting test questions prior to an examination)
 - (d) Not receive or give aid on assigned work that requires independent effort.

- (e) Properly credit the words or ideas of others according to accepted standards for professional publications.
 - (f) Not use term paper writing services or consult such services for the purpose of obtaining assistance in the preparation of materials to be submitted in the course.
 - (g) Not commit plagiarism (Webster's Dictionary defines plagiarism as "stealing or passing off ideas or words of another as one's own" and "the use of a created production without crediting the source".) When using the exact words of another, quotation marks must be used for short quotations (fewer than 40 words), and block quotation style must be used for longer quotations. In either case, a proper citation must also be provided. When paraphrasing (summarizing, rewriting, or rearranging) the words or ideas of another, a proper citation must be provided.
- (2) Students are encouraged to discuss the course contents with colleagues in order to gain a better understanding of the various topics covered. However, all work that you submit must reflect your individual effort. Any help that you receive must be explicitly acknowledged and all reference material must be cited.
 - (3) Each student must demonstrate graduate level proficiency in the use of the English language in all work submitted for this course.
 - (4) Work submissions must follow proper APA format guidelines.
 - (5) Please ensure that your name, phone number, and email are available on each assignment submitted. This information must also appear on all documents attached to email messages.
 - (6) One letter grade will be deducted for each week that an assignment is past the due date.
 - (7) Regular attendance and participation in class or discussion forum is expected from each student.