

**DE ANZA COLLEGE**  
**Student Learning Outcomes (SLOs) Assessment Report**  
**Mapping Program Level Outcomes (PLO) to Institutional Core Competencies (ICC)**

**Program Name:** Database Design for Developers (Oracle)

**Date:** 15-Apr-11

**Division (if applicable):** CIS Department of BUS/CS Division

**Program Contact Person:** Cynthia Lee-Klawender

**Phone:** X.8609

See instructions for ICCs reference numbers "Expanded ICCs" (tab below). Every program will need an individual sheet. Attach additional pages as necessary.

ICC Reference #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5	Prepare and review a database design including logical and system representations.	Final Project of CIS 64B			
5	Design, code and debug SQL and PL/SQL programs	Final Project of CIS 64C			
5	Apply performance tuning techniques to tune large scale database applications.	Final Project of CIS 64D			
5	Create, design and debug intermediate level programs with basic C language	Final Project of CIS 15BG			
5	Create database that are optimized for defined technical requirements.	Final Project of CIS 64A			

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**Program Name:** Computer Networking Certificates

**Date:** 15-Apr-11

**Division (if applicable):** CIS Department of BUS/CS Division

**Program Contact Person:** Cynthia Lee-Klawender

**Phone:** X.8609

See instructions for ICCs reference numbers "Expanded ICCs" (tab below). Every program will need an individual sheet. Attach additional pages as necessary.

ICC Reference #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5c	Create algorithms for solving introductory level problems using C though the stages of coding, documenting, debugging, reading and testing with various tools.	Final Project of one of the following: CIS 15AG			
5c	Create algorithms, code, document, debug, and test shell scripts that interact with the Unix / Linux OS	Final Project of CIS 18A			
5g	3. Use Unix/Linux utilities and shell features for file manipulation and communication.	Final Project of CIS 18A			
5c	Recognize networking components and protocols in the context of architectures and technologies for LAN, WAN and Internet networks.	Final Project of CIS 67A or 67B			
5c	Develop and present a plan for improving a business using the business decision making model utilizing software and hardware applications in word processing, spreadsheets, or databases. Also, recognize hardware and networking components in the context of micro computers, and various types of operating systems, architectures and protocols for networks.	Projects of CIS 3			

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**Division (if applicable):** CIS Department of BUS/CS Division

**Program Contact Person:** Cynthia Lee-Klawender

**Phone:** X.8609

See instructions for ICCs reference numbers "Expanded ICCs" (tab below). Every program will need an individual sheet. Attach additional pages as necessary.

ICC Reference #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5c	1. Create a design, implement and debug solutions for computing systems of different levels of complexity using C/C++ or Java or Perl or Visual BASIC.	Final Project of one of the following: CIS 15C, 26B, 27, 28, 35B, 33B, 14B			
5c	2. Create, design, implement, and debug solutions for embedded systems like 8086 IA32 processor using Assembly Language.	Final Project of CIS 21JA			
5g	3. Use Unix/Linux utilities and shell features for file manipulation and communication.	Final Project of CIS 18A or CIS 18B			
5c	Design solutions for advanced network problems creating distributed programs using Transport Control Protocol and Internet Protocol	Final Project of CIS 75B			
5c (this should be a separate PLO)	5c Create algorithms, code, document, debug, and test shell scripts that interact with the Unix / Linux OS; Create web pages using Extensible Hypertext Markup Language (XHTML), Cascading Style Sheets (CSS), JavaScript, and the Document Object Model (DOM), and demonstrate how they interact together within a web document. (CIS 89C)	Final Project of CIS 18C; Final Project of CIS 89C			

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**Program Name:** Project Management Practioner

**Date:** 15-Apr-11

**Division (if applicable):** CIS Department of BUS/CS Division

**Program Contact Person:** Cynthia Lee-Klawender

**Phone:** X.8609

See instructions for ICCs reference numbers "Expanded ICCs" (tab below). Every program will need an individual sheet. Attach additional pages as necessary.

ICC Reference #'s	Program Level Outcomes	Means of Assessment and Criteria for Success	Summary of Data Collected	Use of Results	Timeline for Program Modification
5	Manage projects by applying Project Management Theory as defined by Project Management Institute (PMI) called Project Management book of Knowledge (PMBOK).	Final Project of CIS 95A			
5	Lead the creation of a project plan in an organization for large scale project with large budgets.	Final Project of CIS 95B			
5	Apply risk management techniques in a project to balance scope, quality, budget, schedule and team morale.	Final Project of CIS 95C			
5	Write a solicitation plan for recruiting a vendor and using a collaborative approach for selecting them.	Final Project of CIS 95D			
5	Manage a vendor through completing a project successfully while providing all project participants with a clear picture of scope, quality, budget and schedule.	Final Project of CIS 95D			