

**PROGRAM APPROVAL APPLICATION**  
**NEW or SUBSTANTIAL CHANGE or LOCALLY APPROVED**  
**(This application may not exceed 3 pages)**

**Fill In Form**

Certificate of Achievement – Database Management

Proposed Program Title

Long Beach City College

College

Long Beach Community College District

District

Fall 2015

Projected Program Start Date

Brent Gilmore

Voting Member

Director of Academic Services

Title

562-938-4311

Phone Number

bgilmore@lbcc.edu

E-mail Address

**Goal(s) of Program (Check all that apply):**

Career Technical Education (CTE)

Transfer

Other

**Type of Program (Check all that apply):**

A.S. Degree

A.A. Degree

Certificate of Achievement:

18+ semester (or 27+ quarter) units

12-18 semester (or 18-27 quarter) units

**Reason for Approval Request: (Check One)**

New Program

Substantial Change

Locally Approved

**Program Information**

Recommended Taxonomy of Program (TOP) Code    070100

Units for Major-Degree                                    [Click here to enter text.](#)

Total Units for Degree                                    [Click here to enter text.](#)

Required Units-Certificate                                32-33

**Written Form**

1. Insert the description of the program as it will appear in the catalog.

The Database Management certificate of achievement is designed to provide the fundamental knowledge and skills required of data management professionals. This certificate will prepare students for a variety of roles suitable for an entry level position as a business analyst, data analyst, data scientist, database application programmer or junior database administrator. The program provides students with hands on experiences in three database systems including Microsoft Access, MySQL, and Microsoft SQL Server. Students learn to write SQL, create database objects, organize data, report and analyze, program forms, plan a database around a business need, normalize a relational database system, and build database web applications. Students have the opportunity to take a Microsoft Certification in Database Fundamentals as part of this certificate.

2. Provide a brief rationale for the program.

The Database Management Certificate program prepares students for careers in a variety of Database areas. The demand for Database Administrator is expected to as firms increase their data collection activities. Database Administrators will be needed to organize and present data in a way that makes it easy for users to understand.

3. List all courses required for program completion, including core requirements, restricted electives and prerequisites. (Push Enter after each entry to begin a new line)

Courses	Course No.	Course Title	Units
<b>Required Major Course Work</b>	BCOM 15	Business Communications	3.0
	COSA 25	Microsoft Access for Windows	4.0
	COSP 7	Business Programming Logic & Design	4.0
	COSP 36	System Analysis and Design	4.0
	COSP 38	Database Concepts	4.0
	COSP 238	Advanced Database Concepts	3.0
	COSW 220	Database Programming with PHP/MySQL	4.0
		<b>Subtotal Units</b>	<b>26</b>
<b>IN ADDITION, select TWO (2) classes from the following:</b>			
	COSA 210	Introduction to Project Management	3.0
	COSN 205	UNIX/LINUX Fundamentals	4.0
	COSN 225	Windows OS Administration Fundamentals	3.0
	COSN 230	Windows Server Administration Fundamentals	3.0
		<b>Subtotal Units</b>	<b>6-7</b>
		<b>Total Units</b>	<b>32-33</b>

4. Summarize the Labor Market Information and employment outlook (including citation of the source of the data) for students exiting the program.

The Data Base Management program will prepare students for entry-level employment opportunities as Data Base Administrators (SOC 15-1141). Regardless of the student seeking employment directly after completing this certificate or waiting until completion of a higher degree, the LMI supports LBCC adding this new program to the region. The following summarizes the LMI in Los Angeles County for the above mentioned occupation.

- The 2012-2022 job change is 1,623 jobs (5.4%) with the largest growth being split between Database Administrators (321 jobs, 8%), and Computer Information Systems Manager (1,091 jobs, 8%).
- The median hourly earnings is \$53.42; \$5.23 higher than the national median wage.
- There were 1,486 openings in August 2015 and 6,631 unique job postings.
- The primary regional program that prepares students for these occupations is Database Administration (CIP 11.0802).
  - In 2014 there were 68 regional completions in this program. Of these, only 3 completions were from community colleges. The majority of the completions were from private and state universities and colleges. The number of completions is less than demand indicating a regional need.

The strong regional growth, high wage, and net demand in Los Angeles County warrant LBCC offering this new certificate in the region.

5. List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (Push Enter after each entry to begin a new line)

College	Program	Who you Contacted	Outcome of Contact
Cerritos College	Computer Information Systems	Reviewed website	No Certificate
Cypress College	Computer Information Systems	Reviewed website	Teach Oracle
Fullerton College	Computer Science	Reviewed website	They have a Database Applications Skills certificate.
Golden West College	Computer Science	Reviewed website	No Certificate
El Camino College	Computer Science	Reviewed website	No Certificate
Los Angeles Harbor College	Computer Science	Reviewed website	Yes, they have a Database Track
Orange Coast College	Computer Science	Reviewed website	No Certificate
Santa Ana College	Computer Science	Reviewed website	No Certificate

6. Include any other information you would like to share  
 None