CALIFORNIA COMMUNITY COLLEGES

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

Fill In Form

Database Administration
Proposed Program Title

Spring 2017
Projected Program Start Date

Citrus College
College

Citrus CCD
District

Contact Information

Jim Lancaster
Voting Member

Dean; Curric, CTE, Cont. ED
Title

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

☒ Career Technical Education (CTE)   ☐ Transfer   ☐ Other

Type of Program (Check all that apply):

☐ Certificate of Achievement 12-17 (or 17-27 quarter) units   ☒ Certificate of Achievement 18+ semester (or 27+ quarter) units

☐ Associate of Science Degree   ☐ Associate of Arts Degree

Reason for Approval Request (Check One):

☒ New Program   ☐ Substantial Change   ☐ Locally Approved

Program Information

0707.20   Recommended Taxonomy of Program (TOP) Code

_____   Units for Major-Degree

_____   Total Units for Degree

30.5-31.5   Required Units-Certificate

Written Form

1. **Insert the description of the program as it will appear in the catalog. (See PCAH pp. 142 and 170)**

The Database Administrator Certificate of Achievement is one of several certificate options available in the Information Technology and Information Systems (ITIS) program. The core competencies for this certificate include foundational skills in Information technology (ITIS 104-Information Technology, ITIS 107-Network Technology, and ITIS 115-Computer Information Systems) as well as foundational skills in computer programming (ITIS 141-Programming Fundamentals). These four foundational courses are also required in the other ITIS certificates. Students will advance from the core competencies to develop practical skills in using specialized software to store, manipulate, and organize data. The eventual goal is to build the necessary foundation for students to pursue an undergraduate degree in an information-related or computer-related subject.

Students completing this certificate will be equipped with the skills determined by employers as necessary for an entry-level position in information technology such as a Computer User Support Specialist (SOC Code: 15-1151) or

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Database Administrator (SOC Code: 15-1141). During the program students will also have an opportunity to complete industry certifications from CompTIA, including A+ and Network+.

2. Provide a brief rationale for the program.

This is a new certificate of achievement developed in collaboration with industry, the LA ICT-DM DSN, and the ICT-DM SN. The coursework follows the ICT-DM statewide curriculum model for ICT. This certificate is one of two new certificates (Website Development is the other) and will be one of three certificates that have a common core of coursework (our Information Technology certificate is a nonsubstantial change). These certificates will be housed in our revamped Information Technology/Information Systems program (formerly two separate programs: Information Technology and Computer Information Systems).
Certificate Learning Outcomes are:

1. Demonstrate proficiency in building and maintaining relational databases.
2. Demonstrate proficiency in creating, editing, and modifying an electronic database.
3. Demonstrate proficiency in generating various reports through the process of querying and extraction.

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3. Summarize the Labor Market Information (LMI) and employment outlook (including citation for the source of the data) for students exiting the program. (See PCAH pp. 85-88, 136, 147, 148, 165, 168, and 176)

Source

This certificate of achievement targets two occupations: Computer User Support Specialists (SOC 15-1151) and Database Administrator (15-1141). The following LMI is for Los Angeles and Orange County and is pulled from EMSI (2016.2 – QCEW Employees, Non-QCEW Employees, and Self-Employed) using a three-year historical and a five-year projection (2013-2021).

Growth and Wages

While below the national average (16.8%), regional job growth across the two occupations is still predicted to be strong with a 10.2% change, 2,936 jobs (416 for Database administration and 2,519 in Computer User Support) projected. Additionally, regional median hourly earnings are higher than those earned nationally. Regional median wages are: $42.82/hr. for database administrators and $25.57/hr. for computer user support specialists.

Occupational Supply and Demand

The unique job postings for these occupations have averaged over 2,750 postings per month for the past 12 months, an increase of 1000 unique monthly postings from previous years. Moreover, the average monthly hires from January 2013 to March 2016 were 1,228 for computer user support specialists and 193 for database administrators. There are several programs (private and public) that may have provided regional completers in 2014 for these hires. These included Computer Systems Networking and Telecommunications (CIP 11.0901), 578 completers; Computer and Informational Sciences, General (CIP 11.0101), 364 completers; System, Networking, and LAN/WAN Management/Manager (CIP 11.1002), 326 completions; Computer Support Specialist (CIP 11.1006), 64 completions; and Network and System Administration/Administrator (CIP 11.1001); 59 completions. The average number of monthly unique job postings and monthly hires mentioned previously far outpaces the annual supply of workforce by regional programs, indicating regional need will not be fully met. The addition of the Citrus College Database administration program is therefore warranted in the LA/OC region.

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4. **List similar programs at other colleges in the Los Angeles and Orange County Region which may be adversely impacted. (There is space for 10 listings, if you need more, please contact laocrc@rsccd.edu)**

College	Program	Who You Contacted	Outcome of Contact
Coastline CC	Digital Media Foundations	Email Voting Mbr/Alt VM	No Response
Cypress CC	Database Mgmt/Web Dev	Email Voting Mbr/Alt VM	Supports
El Camino College	Web design/Database Mgt	Email Voting Mbr/Alt VM	No Response
Glendale CC	Web Development	Email Voting Mbr/Alt VM	No Response
Irvine Valley College	Web Authoring/Database	Email Voting Mbr/Alt VM	No Response
LA Pierce CC	Web Design	Email Voting Mbr/Alt VM	No Response
Long Beach CC	Database Mgmt	Email Voting Mbr/Alt VM	No Response
Mt. San Antonio	Database Mgmt	Email Voting Mbr/Alt VM	No Response
Saddleback CC	Web Developer	Email Voting Mbr/Alt VM	No Response
Santa Ana CC	Web Design	Email Voting Mbr/Alt VM	No Response
Santa Monica CC	Database App/Web Design	Email Voting Mbr/Alt VM	No Response
Santiago Canyon College	Database	Email Voting Mbr/Alt VM	No Response
West LA CC	Database Admin	Email Voting Mbr/Alt VM	No Response

5. **List all courses required for program completion, including core requirements, restricted electives and prerequisites. (There is space for 20 listings, if you need more, please contact laocrc@rsccd.edu). (See PCAH pp. 143 and 171)**

Students must complete the following ITIS core courses: — **Units**

ITIS104	Information Technology	4
ITIS107	Network Technology	4
ITIS115	Computer Information Systems	3.5
ITIS141	Programming Fundamentals	3

Plus complete three (3) of the following electives: — **Units**

ITIS160	Introduction to Database Concepts	3
ITIS165	Database Principles Using SQL	3
ITIS170	Database Programming	3
BUS152	Business Communications	3

Plus complete one (1) of the following (or higher level) Math courses: — **Units**

MATH144	Technical Mathematics	5
MATH150	Intermediate Algebra	5
MATH165	Introductory Statistics	4

Total Units — **30.5 - 31.5**

6. **Include any other information you would like to share.**