DATABASE MANAGEMENT
CERTIFICATE PROGRAM • ONLINE

Today, organizations in every industry (i.e. healthcare, finance, retail, telecommunications and others) are being showered with imposing quantities of new information. Along with traditional sources, many more data channels encompassing un-structured data now exist. This proliferation of data from both structured and un-structured sources is giving rise to a phenomenon called "Big Data." Therefore, it is becoming increasingly important to utilize the right tools and techniques to capture and organize a wide variety of data types from different sources (both structured and un-structured), and to be able to easily analyze it within the context of all your enterprise data.

WHO SHOULD ENROLL

This program is designed to provide students with the expertise needed to effectively manage and analyze both structured and un-structured data. This flexible program allows students to obtain general data analysis and management skills or apply both Oracle and Microsoft SQL Server database management systems. This program also touches on the new emerging frameworks and methods for managing, processing and analyzing "Big Data".

This program is of interest to anyone who wants to use the powerful capabilities of relational databases in conjunction with the new "Big Data" management frameworks for data storage and retrieval, and for data analysis in support of management decision-making. Data architects, data analysts, database administrators and information technology staff members can all benefit from this program.

CERTIFICATE ELIGIBILITY AND RE-QUIREMENTS

To receive the Database Management Certificate, you must complete a minimum of 150 hours (15 units) of coursework from any combination of the courses listed in the grid below with a grade of "C" or higher in each course. If you complete a sufficient number of Oracle courses to be eligible for the Oracle Database Administration or Oracle Application Development certificates, you must choose whether you wish to receive this (Database Management) certificate, or the Oracle certificate. You cannot receive both. All requirements must be completed within 5 years after the student enrolls in his/her first course. Students not pursuing a certificate are welcome to take as many individual courses as they wish.

University of California, Irvine

ce.uci.edu/dbm

PROGRAM FEES

The total cost of the program varies depending on the elective courses chosen. Actual fees may differ from the estimate below. Fees are subject to change without prior notice.

Course Fees	$5,345
Candidacy fee	$125
Textbooks and Materials	$89
Total Estimated Cost	**$5,559**

TO ENROLL

Visit ce.uci.edu/dbm for full course descriptions, instructor biographies, and enrollment information.

FOR MORE INFORMATION:

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CHOOSE 15 UNITS TOTAL

COURSE#	DATA MANAGEMENT	UNITS
I&C SCI X426.81	Designing Relational Databases	3
I&C SCI X425.32	Data Modeling	2.5
I&C SCI X425.35	Data Management	2.5

COURSE#	DATA ANALYSIS	UNITS
I&C SCI X425.80	Introduction to Big Data	2
I&C SCI X425.70	Big Data Analytics	2
I&C SCI X425.20	R Programming	2
I&C SCI X425.18	Hadoop: In Theory and Practice	3

COURSE#	ORACLE DATABASE	UNITS
I&C SCI X442.2	Oracle Database 12c: Introduction to SQL - Part 1	1.5
I&C SCI X442.3	Oracle Database 12c: Introduction to SQL - Part 2	1.5
I&C SCI X442.4	Oracle Database 12c: Administration Workshop - Part 1	1.5
I&C SCI X442.5	Oracle Database 12c: Administration Workshop - Part 2	1.5
I&C SCI X442.6	Oracle Database 12c: Backup & Recovery Workshop - Part 1	1.5
I&C SCI X442.7	Oracle Database 12c: Backup & Recovery Workshop - Part 2	1.5

COURSE#	MICROSOFT SQL SERVER DATABASE	UNITS
I&C SCI X450.72	Writing Queries Using Microsoft SQL Server	2.5
I&C SCI X450.79	Implementing a Microsoft SQL Server Database	2.5
I&C SCI X450.77	Implementing and Maintaining SQL Server Reporting Services	2.5
I&C SCI X450.78	Implementing and Maintaining SQL Server Integration Services	2.5

ADVISORY COMMITTEE

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