

DATABASE MANAGEMENT

Curriculum Guide for Academic Year 2021-2022

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at <u>www.assist.org</u> and **consult a counselor** before beginning a program of study. Please call 562-938-4561 (LAC) or (562) 938-3920 (PCC) to schedule an appointment. Students may also wish to visit the Transfer Center on either campus.

	Program of study leading to:			
	Associate in Science (A.S.) Degr	ee		
			_ In	Completed
DATABASE MANAGEMENT COURSES		UNITS	Progress	Grade
	COM 15 Business Communications	3		
	OSA 50 Introduction to IT Concepts and Applications	4		
-	OSA 25 Microsoft Access for Windows	3		
C	OSN 205 UNIX/LINUX Fundamentals	4		
	OSN 251 Database Essentials in Amazon Web Svcs.	3		
C	OSP 38 Database Concepts	4		
C	OSP 237 Database Programming with SQL	4		
	Subtotal Ur	nits 25		
For grad	duation with an Associate in Science (A.S.) Degree with a major in Databas Minimum Unit Requirements: §Any course that appears on a curriculum (Plan A) may fulfill both major and general education requirements (Approve 2012). For this degree, complete a minimum of 60 units in courses num elective units may be required to meet this minimum based upon courses s Associate Degree. Database Management Uni General Education/A.S	guide and the d by College C bered 1-599. selected to fulf ts 25 Units	e General Edu <u>Curriculum Cor</u> Please note	mmittee Spring that additional
2. 3. 4.	Scholarship: Maintain an overall grade point average (GPA) of 2.0 ("C" work applied to the degree, no matter where completed. For this field of above with a grade of "C" or better, or "P" if course is graded on a P/NP bar Residence for the Degree: Complete at least 12 semester units of the required bar bar constraints of the required bar	f concentrati asis. ired 60 semes and/or an As more of the u	on, complete ster units in res sociate of Scie unit requirement	e each course sidence at ence Degree. nts for this field

College. Credit earned by exam, where applicable, may be included.
General Education and Proficiency Requirements: Complete the required A.A./A.S. General Education and Proficiency requirements*, otherwise known as "Plan A". For Plan A requirements, refer to the general catalog or view it online at http://osca.lbcc.edu.

Program of study leading to:								
Certificate of Achievement								
REQUIRED COURSES—Complete the 25 units of required courses as listed in the Associate Degree requirements box.								
	TOTAL UNITS 25							
1. (2. (1 2. (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	uation with a Database Management Certificate of Achievement: Complete each of the REQUIRED COURSES listed above with a minimum grade of "C ". Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at least 12.5 units of the required 25 units must be completed at Long Beach City College . Credit earned by exam, where applicable, may be included. Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <u>http://admissions.lbcc.edu/</u> . Refer to the Schedule of Classes (<u>http://schedule.lbcc.edu</u>) and click the "Important Dates" link to view the actual deadline for each semester.							

Program of study leading to: Certificates of Accomplishment										
Administration Specialist 4080										
		UNITS	In Progress	Completed Grade						
Microsoft Access for Windows		3								
Database Concepts		4								
	TOTAL UNITS	7								
mmer Specialist 4158		UNITS	In Progress	Completed Grade						
Introduction to Oracle SQL & PL/SQL	TOTAL UNITS	4 4								
	Certificates of Acco Administration Specialist 4080 Microsoft Access for Windows Database Concepts	Certificates of Accomplishment Administration Specialist 4080 Microsoft Access for Windows Database Concepts TOTAL UNITS mmer Specialist 4158 Introduction to Oracle SQL & PL/SQL	Certificates of Accomplishment Administration Specialist 4080 UNITS Microsoft Access for Windows 3 Database Concepts 4 TOTAL UNITS 7 mmer Specialist 4158 UNITS Introduction to Oracle SQL & PL/SQL 4	Certificates of Accomplishment Administration Specialist 4080 In Microsoft Access for Windows 3 Database Concepts 4 TOTAL UNITS 7 mmer Specialist 4158 In Introduction to Oracle SQL & PL/SQL 4						

1. Complete the above required courses with a minimum grade of "C", or "P" if course is graded on a P/NP basis.

2. Fifty percent (50%) or more of the required units must be completed in residence at LBCC.

Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu

Career Opportunities

This Associate Degree or Certificate of Achievement is a two-year program leading to the Associate in Science (A.S.) degree. The Database Management Systems concentration includes coursework in the design, development and maintenance of relational databases. The program is designed to prepare students for employment in a computer field following graduation. Students wishing a Bachelors' degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Program Mission and Outcomes

This program will provide students with a strong foundation in the design and management of database systems in a business environment. In-depth practice of Structured Query Language (SQL) is provided in the context of business-related case studies. The Database Management program covers advanced database concepts, including database administration, database technology, database web programming and selection and acquisition of database management systems. Supporting courses allow students to gain a thorough understanding of necessary business communication skills, operating systems, programming logic and system design.

DATABASE MANAGEMENT 2021-2022 Page 2 of 3 AS = 2127; C-ACH = 3127; C-ACC = 4080; C-ACC = 4158 Published: 06/17/21 Departmental Phone: 562-938-4904, Email: http://cos.lbcc.edu Information on this sheet is subject to change without notice. Any updates to this guide are posted at http://osca.lbcc.edu .

Outcomes:

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze the data needs of an organization or company, and determine how to best organize and store the data in logical, secure and accessible structures.
- Design web applications to access and manipulate data using MS Access, MySQL, MS SQL Server and PHP.
- Understanding the roles and responsibilities of a database administrator. Have the ability to troubleshoot systems.

Certificate of Accomplishment Outcomes (Database Administrator Specialist):

• Demonstrate the ability to install database software on a computer system and configure it for use.

Certificate of Accomplishment Outcomes (SQL Programmer Specialist):

• Design, run, and analyze new and existing SQL programs according to commonly practiced industry standards.

<u>Legend</u>

† This course has a prerequisite. Prerequisite courses must be complete with at least a "C" or "P" grade. Refer to the General Catalog (<u>http://www.lbcc.edu/cat/index.html</u>), the Schedule of Classes (<u>http://schedule.lbcc.edu/</u>), or the online Credit Course Outline (<u>http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/</u>) for specific prerequisite information.