

Associate in Applied Science

Database Management (A25150)

For more information: Alberto Botero alberto.botero@cpcc.edu 704.330.6253



Overview

The Database Management curriculum prepares graduates for employment with organizations that use database management system software to process, manage, and communicate information. Additionally, the curriculum provides the student with a foundation to begin professional certification with Microsoft or ORACLE database programs.

Course work includes terminology and design, database administration, backup and recovery, performance and tuning, database programming and tools, and related topics. Studies will provide an opportunity for students to implement, support, and manage industry standard database systems.

Graduates should qualify for a wide variety of database and computer related entry-level positions that provide opportunities for advancement with increasing experience and ongoing training.

Database administrators are expected to be among the fastest growing occupations through 2014. Employment of these computer specialists is expected to grow much faster than the average for all occupations as organizations continue to adopt and integrate increasingly sophisticated technologies. Job increases will be driven by very rapid growth in computer systems design and related services, which is projected to be one of the fastest growing industries in the U.S. economy. Job growth will not be as rapid as during the previous decade, however, as the information technology sector begins to mature and as routine work is increasingly outsourced overseas. In addition to growth, many job openings will arise annually from the need to replace workers who move into managerial positions, other occupations or who leave the labor force.

Optimum / Recommended Plan of Study

Semester 1 (Fall):

		Class	Lab	Credits
MAT 121	Algebra/Trigonometry I	2	2	3
DBA 110	Database Concepts	2	3	3
CIS 110	Introduction to Computers	2	2	3
CIS 115	Introduction to Prog & Logic	2	2	3
NET 110	Networking Concepts	2	2	3
NOS 110	Operating System Concepts	2	3	3
				<u>18</u>

Semester 2 (Spring):

DBA 115	Database Applications	2	2	3
DBA 120	Database Programming I	2	2	3
CTS 285	Systems Analysis & Design	3	0	3
CTS 115	Info Sys Business Concepts (BUS 110 may substitute)	3	0	3
ENG 111	Expository Writing	3	0	3
				<u>15</u>

Summer:

COM 110	Introduction to Communication (COM 120 or COM 231 may substitute)	3	0	3
ENG 114	Professional Research & Reporting (ENG 112 or ENG 113 may substitute)	3	0	3
				<u>6</u>

Semester 3 (Fall):

DBA 210	Database Administration	2	3	3
DBA 240	Database Analysis & Design	2	3	3
DBA 220	Oracle DB Programming	2	3	3
	Technical Electives			3
	Social/Behavioral Sciences Elective			3
				<u>15</u>

Semester 4 (Spring):

SEC 110	Security Concepts	3	0	3
DBA 230	Database in Corp Environs	3	0	3
DBA 289	Database Project	1	4	3
	Technical Electives			3
	Humanities/Fine Arts Elective			3
				<u>15</u>

Students must complete a minimum of 6 SHC of electives from the following course prefixes: COE**, CSC, WEB, CIS, CTS, DBA, GRA, NET, NOS, SEC.

** A maximum of 3 credit hours with COE prefix.

Total Credit Hours: 69

Use Information Technology To Get There!

FIRST STEP TO ENROLL:
Complete online admission form.

Consult a faculty advisor or College counselor prior to registration.

For More Information:
Consult Faculty Advisor in the Heading.

*CPCC is an
Equal
Opportunity
Institution.*