

Database System Administration

Division of Mathematics, Engineering Technologies and Computer Sciences — Curriculum Code: 3324

Will Earn Upon Program Completion: Academic Certificate

Database administrators are the creative minds behind computer programs. They use specialized software to store, organize data, and generate various reports by querying from databases. The Bureau of Labor Statistics forecasts that the demand for database administrators will increase by 15% from 2012 to 2022 due to the large increase in the demand for data needs of companies across the economy. The Database System Administration academic certificate program introduces students to the fundamentals of database management technology, design, development, and administration. Students will gain experience working in distributed, client-server, desktop and virtualized environments. The Database System Administration certificate program is a one-year certificate program offering a mixture of general education, professional courses, and technical experiences at local facilities. Successful completion helps students prepare for important information technology (IT) professional certificates such as MCSA and SQL Server certification.

Program Requirements

GENERAL EDUCATION REQUIREMENTS (7 CREDITS)

Written & Oral Communication (3 credits)

[ENG 101](#) (3 credits)

Quantitative Knowledge & Skills (4 credits)

[MTH 100](#) (4 credits)

MAJOR COURSE REQUIREMENTS (23 CREDITS)

[CSC 113](#) Introduction to Linux/Unix Operating System (4 credits)

[CSC 151](#) Introduction to Developing Web Applications (3 credits)

[CSC 231](#) Database Design (4 credits)

[CSC 232](#) Advanced Database Management (4 credits)

[CSC 251](#) Web Application Development (4 credits)

[CSC 253](#) Introduction to System & Cloud Administration (4 credits)

Note: The minimum passing grade for all courses designated CSC and MTH is "C". If you earn a grade below "C", you need to repeat that course.

RECOMMENDED SEQUENCE OF COURSES

Total Credits Required for Academic Certificate: 30

First Semester

[MTH 100](#) Introductory College Mathematics (4 credits)

[CSC 151](#) Introduction to Developing Web Applications (3 credits)

[CSC 113](#) Introduction to Linux/ Unix Operating System (4 credits)

[CSC 231](#) Database Design (4 credits)

Second Semester

[ENG 101](#) College Composition I (3 credits)

[CSC 232](#) Advanced Database Management (4 credits)

[CSC 251](#) Web Application Development (4 credits)

[CSC 253](#) Introduction to System & Cloud Administration (4 credits)

NOTES:

(1) This plan assumes the completion of all required developmental courses in Reading, English, and Mathematics as well as other [pre-requisites](#) and [co-requisites](#) for some of the courses, as listed in the Course Descriptions section.