



Database Administration Technology

The Database Administration Technology program is designed to prepare students for entry-level employment in the database administration field. This program of study offers training in the design and manipulation of databases using a variety of programming languages, database software, hardware maintenance, and operating system functions. Students will set up, administer, and maintain small- and large-scale relational database systems. Students have the opportunity to learn in a hands-on environment with a wide variety of classes that will benefit them after completing their degree. We are also privileged to be a Cisco® Networking Academy Program and a CompTIA® Academy.

THE PROGRAM: Students can begin this program at the beginning of the fall or spring semesters. Completion of the two-year program leads to an Associates of Applied Science degree. As part of this degree program, students will also be required to **pass** the A+ and CIW Database Design Specialist certifications. For the most current information, go to <http://ist.eastms.edu>.

ENTRANCE REQUIREMENTS: Minimum admission requirements: Obtain the following ACT scores: Math - 15, Reading - 15, Composite - 15. If a student doesn't have the ACT, they may use Accuplacer and they must score 75 on Reading Comprehension and 37 on Elementary Algebra.

THE FUTURE: Cybersecurity is an ever-evolving field of study. IT changes rapidly and requires students to be life-long learners with the ability to incorporate ever-changing technologies into their skill set. IT is one field of study which hasn't suffered any economic downturns. The need for well-trained IT personnel is present in every industry, from healthcare to manufacturing

THE PAY: According to Mississippi Employment Security Commission 2017 data, students completing the EMCC Database Administration Technology program should expect starting salaries ranging from \$45,000 to \$48,000 per year, depending on the field of specialization and the skill level of the student.

YOUR OPTIONS: Upon completion of the two-year curriculum, the student will be awarded an Associate of Applied Science degree in Database Administration Technology.

Required Technical Classes

IST 1124 – IT Foundations
IST 1134 – Fund. of Data Communications
IST 1143 – Principles of Information Security
IST 1163 – Database and SQL Concepts
IST 1224 – Network Components
IST 1433 – Web Dev using HTML & CSS
IST 1514 – SQL Programming
IST 1533 – Database Architecture and Administration
IST 2434 – Server Side Programming
IST 2464 – Power-shell Programming
2 Programming Electives
2 Career/Technical Electives

Programming Electives

IST 1314 – Visual Basic Programming
IST 1414 – Client-Side Programming
IST 1433 – Web Development Using HTML & CSS
IST 1724 – Programming in Python
IST 2324 – Script Programming Language
IST 2374 – C++ Programming Language
IST 2454 – Mobile Application Development
IST 2584 – C# Programming Language
OR any other as approved by the program advisor

Academic Electives

ENG 1113 – English Composition
SPT 1113 – Public Speaking
Humanities/Fine Arts Elective
Math/Science Elective
Social/Behavioral Science Elective
LLS 1711 – Job Search Skills **OR**
BOT 2183 – Career Readiness **OR**
IST 1273 – Career Development

Academic electives must be approved by program advisor

Career/Technical Electives

IST 1223 – Network Components
IST 1244 – Net. Admin. Using MSWin Server
IST 1613 – Computer Forensics
IST 2224 – Network Planning & Design
IST 2234 – Network Implementation
OR any other as approved by the program advisor