



Computer Programming Technology

The Computer Programming Technology program offers training in the design, coding, and testing of software applications using a variety of programming languages, database manipulation, hardware maintenance, and operating system functions. 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. Students will take a four semester program as part of the CPT curriculum which will teach them the principles of designing, building, and maintaining software programs. As part of this degree program, students will also be required to **pass** the A+ and the Microsoft Technology Associate (MTA) Software development 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: Computer Programming 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 Computer Programming Technology program should expect starting salaries ranging from \$43,000 to \$56,000 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 Computer Programming 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 2324 – Script Programming **OR**
IST 2434 – Server Side Programming I
5 Programming Electives
2 Career/Technical Electives

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

Programming Electives

IST 1314 – Visual Basic Programming
IST 1414 – Client –Side Programming
IST 1433 – Web Development Using HTML & CSS
IST 1514 – SQL Programming
IST 1724 – Programming in Python
IST 2324 – Script Programming Language
IST 2374 – C++ Programming Language
IST 2434 – Server Side Programming
IST 2454 – Mobile Application Development
IST 2464 – Power-shell Programming
IST 2584 – C# Programming Language
OR any other as approved by the program advisor

Career/Technical Electives

IST 1223 – Network Components
IST 1244 – Net. Admin. Using MSWin Server
IST 1254 – Net. Admin. Using Linux
IST 1613 – Computer Forensics
IST 2224 – Network Planning & Design
IST 2234 – Network Implementation
OR any other as approved by the program advisor