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SOUTHERN CAREERS INSTITUTE
ASSOCIATE OF APPLIED SCIENCE IN
COMPUTER SCIENCE MANAGEMENT

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LEARN IT.

The Associate of Applied Science in Computer Science Management program is offered via distance education delivery. The AAS in Computer Science Management equips students with the required technical skills and introduces students to application development, theory, and design for computer systems. This program teaches students to develop algorithms using computational theory and the use of operating systems, compiler design, and software engineering with applied projects and analysis.

After completing this program, graduates will be able to:

- Create computer programs to access and analyze data.
- Demonstrate ethical standards for computer professionals.
- Use critical thinking and problem-solving skills to create computer programs.
- Demonstrate foundational and object-oriented programming skills.

Graduates may qualify for a variety of jobs, including:

- Front End Web Developer
- Back-End Web Developer
- Full Stack Developer
- Computer Support Specialist
- Computer Programmer
- Network and Computer Systems Administrator

Length of Program*

51
WEEKS

** With successful full-time enrollment, Online courses are asynchronous and attendance is quantified by achieving the defined activity benchmark.*

Earn the following 19 Skill Badges conveying proficiency in your field:



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Discover more information about this program in the [Southern Careers Institute School Catalog](#) at SCItexas.edu

**CSV103 Customer Service**

The role of customer service is studied focusing on skills needed to work effectively with individuals or groups. Problem solving and critical thinking skills will be incorporated in exploring varying aspects of interaction with internal and external customers.

MAC103 Communication

Students will study communication skills utilizing informal writing techniques. Focus will be on the production of work product that demonstrates basic skills in communicating to individuals or groups. Software and/or online ancillaries will be incorporated to supplement project creation.

JOB103 Career Readiness

This course introduces the skills needed for career success. Students will have the opportunity to learn about setting personal and professional goals, job search techniques and portfolio development. A final resume, cover letter and mock interviews are key aspects of this course. Students may also learn about different career paths.

CIS196 Computer Fundamentals

Students will explore the practical application of computer technology and internet resources within the context of business operations. Topics covered include computer terminology, hardware components, software applications, information management, cybersecurity, and digital communication strategies.

CIS198 Coding Fundamentals

This course covers the fundamental concepts of coding and how to use HTML, CSS, and JavaScript to design and create visually appealing, user-friendly websites.

CIS200 Introduction to Computer Science

This course provides the foundation for the discipline of computing and a program of study in computer science, including the role of the professional. Topics include algorithm design, data abstraction, searching and sorting algorithms, and procedural programming techniques. Upon completion, students should be able to solve problems, develop algorithms, specify data types, perform sorts and searches, and use an operating system.

CIS202 Computer Programming – Front End

This course covers several libraries for front-end web development, including jQuery, Angular.js, bootstrap, and material.

CIS204 Security

This course introduces students to basic security concepts, threat actors and attributes, organizational security, policy, procedures and frameworks, security controls business impact analysis, risk management, incident response and disaster recovery.

CIS206 JAVA Programming

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, and debug JAVA language programs.

CIS208 Database Fundamentals

This course is an introduction to working with and designing databases. Students will develop a foundational knowledge of database concepts, theory, and an overview of the various implementations and architectures. Students will work with both relational (aka SQL) and non-relational (aka document) databases.

CIS210 Data Analytics

This course examines how to collect, clean, analyze, and visualize data to derive meaningful insights. Students will work with statistical analysis, data visualization, and predictive modeling.

CIS212 Computer Programming – Back End

This course is an introduction to creating server-side web applications and services. Students will learn how to create server-side APIs and render websites. Language-specific concepts will be covered, outlining the nuances associated with the elective framework.

CIS214 Cloud Computing

This course covers the use of cloud-based services for hosting, cloud architecture, how to deploy applications, and how to use cloudbased storage and databases. This course also covers how to provide scalable solutions in the rapidly changing IT industry.

CIS216 Artificial Intelligence

This course examines important programming concepts that enable the use of AI in computer science and society at large, implications of AI on society, fundamental concepts such as search and knowledge representation, as well as applied work in areas such as planning and vision. This course also examines the various ways AI can be used to optimize and predict information.

CIS218 Machine Learning

This course covers the exploration of algorithms and statistical models that allow computers to learn from data without explicit programming. This course also covers the creation and deployment of machine learning models for automation, prediction, and pattern recognition. Students will learn how to determine the best methods for a given set of data, and how to use common software tools to utilize these methods.

GEN101 English

A course to strengthen writing skills by emphasizing the development and the improvement of the writing process: prewriting, thesis development, organization, and revision. Library and electronic resources and their documentation are introduced. This course will utilize both in class and out of class learning activities to achieve course objectives

GEN103 Introduction to Psychology

This course examines the scientific study of human behavior. Emphasis is on the historical standpoint, theoretical concepts, and empirical research that are used to describe and understand behavior from biological, cognitive, affective, and social perspectives.

GEN105 Introduction to Biology

This course involves the study of living systems from the molecular and cellular basis of biology through the structure and function of the whole organism, including physiology, heredity, development, and evolution. Topics include surveys ranging from unicellular specimens to mammalian species.

GEN108 Algebra I

This course examines real numbers, variables, linear equations and inequalities, exponents, polynomials, order of operations, and word problems. Focus of these topics is the development of problem-solving skills and critical thinking.

SPEAK WITH AN ADMISSIONS ADVISOR TODAY! 1.833.SCI.TEXAS or visit SCItexas.edu

Austin Main Campus
1701 W. Ben White Blvd., Ste. 100
Austin, TX 78704

Pharr Branch Campus
1500 North Jackson Rd.
Pharr, TX 78577

Brownsville Branch Campus
935 North Expressway
Brownsville, TX 78520

San Antonio-North Branch Campus
6963 NW Loop 410
San Antonio, TX 78238

Corpus Christi Branch Campus
2422 Airline Rd.
Corpus Christi, TX 78414

San Antonio-South Branch Campus
238 Southwest Military Dr. Ste. 101
San Antonio, TX 78221

Harlingen Branch Campus
1122 Morgan Blvd.
Harlingen, TX 78550

Waco Branch Campus
3700 S IH 35, Ste. A
Waco, TX 76706