

Software Development and Programming (SDP)

Associate in Specialized Technology (AST)



The field of software development and programming continues to evolve as new technologies emerge, increasing the demand for skilled software developers.

As a Software Development and Programming major, you will receive training and practical hands-on experience developing applications for desktop and mobile operating systems, creating databases, and building websites using platforms that are in high demand. The curriculum is regularly updated to ensure students are learning programming languages and technologies that employers are using.

Through a comprehensive educational training program including attention to theory, practice and application, students in the SDP program will develop the knowledge, skills and competencies to succeed in the programming and software development fields.

According to the U.S. Department of Labor, employment of computer and information technology occupations is projected to grow 13% from 2016 to 2026, faster than the average for all occupations. These occupations are projected to add about 557,100 new jobs. (U.S. Department of Labor, Occupational Outlook Handbook, 01/18/19)

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The SDP Program Prepares Students to:

- Identify the operating system platform, components, inputs, interface requirements, and dependencies which ensure that a software project will achieve its objectives
- Manage the process of developing designing, testing, and delivering a software application to meet user needs
- Create, retrieve, update, and delete information from modern database systems
- Write programming scripts and applications using modern languages and software tools
- Revise software for corrections, enhancements, or environment changes
- Perform quality checks to ensure software functions bug-free
- Collaborates effectively with others to achieve a common objective
- Utilize a version control system
- Develop a thorough understanding of data structures and algorithms
- Provide oral and written reports in both technical and non-technical environments
- Apply object-oriented programming principles when developing projects
- Design web pages using HTML and content management systems
- Identify ways to solve problems or complete tasks

(Available at State College Campus)

Example Career Opportunities

Applications Developer

Web Designer/Developer

Mobile Applications Developer

Associate Software Engineer

Programmer/Analyst

Software Developer

Database Administrator

Application Programmer

Software Quality Assurance Developer

For more information about the SDP program, courses, and faculty members, please visit www.southhills.edu/SDP

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