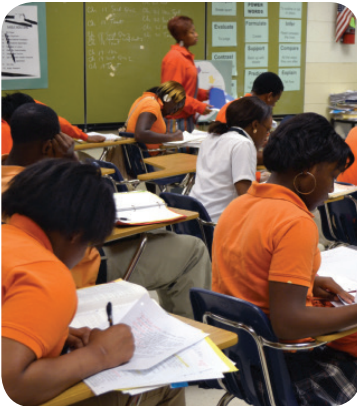


Academy of Business and Computer Technology

Academy Overview: Business and Computer Technology



The Academy of Business and Computer Technology is designed to give high school students an opportunity to prepare for collegiate studies and careers in the fields of business management, finance, and information technology. Emphasis is placed on a college preparatory curriculum that is directly linked to the financial world. Academy students participate in mentorships, career shadowing and internship programs that link the resources of business, economics, and finance to education and to the students.



Course Sequences

Grade	Business Computer Technology	Information Technology	Computer Technology
10th	BTA or Advanced BTA	BTA or Advanced BTA	Information Tech Fundamentals/ IT Support & Services
11th	Multimedia Design	Software Development	Computer Management & Support/Senior Career Pathway Project; Networking I/II
12th	Multimedia Publications and/or Cooperative Education	Cooperative Education Seminar	Networking III/IV

Course Descriptions

Business Technology Applications

This course is designed to assist students in developing technological proficiencies in word processing, spreadsheets, databases, presentations, communications, Internet use, ethics, and careers using technology applications. Simulations and projects promoting teamwork, leadership, and workplace skills offer further opportunities for applications of knowledge and skills.

Advanced Business Technology Applications

This course is designed to provide students with the project-based applications of concepts learned in Business Technology Applications or Business Essentials. Personal computing and business skills are integrated throughout the course as students use a variety of software applications to produce and prepare documents for publication and learn how to select appropriate software for generating information.

Multimedia Design

This course is designed for students to provide students with a hands-on skills involving graphic design, digital photography, Web publishing, and digital video productions. Students use various hardware peripherals and software for completing documents.

Multimedia Publications

A one-credit course designed to provide students with hands-on skills involving graphic design, digital photography, Web publishing, and digital video production. Students use various hardware peripherals and software for completing documents.

Software Development

Software Development is designed to provide students with an introduction to the C++ programming language, structured elements of C++, classes, data, abstractions, inheritance, polymorphism, storage management, and a C++ programming environment. Simple programming exercises will reinforce the theory and stimulate understanding. It is recommended that Information Technology Fundamentals be taken prior to this course.

Cooperative Education Seminar

Cooperative Education Seminar is a required component of the Cooperative Education work-based experience. Students enrolled in Cooperative Education programs are required to participate in seminar one class period per week.

Information Technology Fundamentals

Information Technology introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information systems in business. Emphasis is placed on maintaining a safe working environment and on building interpersonal skills needed for working in the information technology environment. Students demonstrate appropriate knowledge and behaviors of legal responsibilities by information technology professionals. Students explore a variety of information technology career opportunities and develop a personal career plan to meet their career goals and objectives.

IT Support & Services

This course is designed to provide students with knowledge of computer hardware, operating systems, and computer software applications. This course provides students with additional skills necessary to effectively plan, develop, and administer both a local area network (LAN) and a wide area network (WAN).

Computer Management & Support

Computer Management and Support is designed to provide students with skills necessary to manage a stand-alone computer on a home network. Topics in this course include computer hardware, computer operating systems, network architecture, network protocols, career opportunities, and network design and security.

Networking I-IV

The Networking courses are designed to provide students with skills involving hands-on learning by installing a router, configuring a server, and performing disaster recovery. This course includes a strong emphasis on proper safety practices and industry ethics.