

Apparel and Textile Production I

Prerequisite for: Apparel and Textile production II

Career Cluster: Manufacturing; Architecture and Construction

In this course students are introduced to clothing production in the areas of preparation for clothing construction, basic clothing construction techniques, consumer decisions, textiles, historical perspectives and design, and career opportunities. Emphasis is placed on students applying these construction and design skills to apparel and home fashion. Art, mathematics, and science are reinforced.

Computer Programming I

Prerequisite for: Computer Programming II, SAS Programming I

Career Cluster: Information Technology

This course is designed to introduce the concepts of programming, application development, and writing software solutions in the Visual Studio environment. Emphasis is placed on the software development process, principles of user interface design, and the writing of a complete Visual Basic program including obtaining and validating user input, logical decision making and processing, graphics, and useful output. Mathematics is reinforced throughout the course.

Digital Media I

Prerequisite for: Advanced Digital Media

Career Cluster: Arts, AV Technology and Communications

This course provides students with industry knowledge and skills in the overall digital media design field. Areas covered in these two courses include graphics, animation, video, and web design. Industry certifications are used to align curriculum with industry needs. An emphasis is placed on the concepts of graphic design, various digital media technologies, non-linear editing, product development and design, and career development. English language arts, mathematics, and science are reinforced. Common Core Math II is recommended as preparation for this course.

Principles of Business

Prerequisite for: Business Law, Entrepreneurship

Career Cluster: Architecture and Construction; Arts, AV Technology and Communications; Agriculture, Food and Natural Resources; Manufacturing; Information Technology; Finance; Marketing; Science, Technology, Engineering, Math; Business Management Administration; Hospitality and Tourism

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

Principles of Family and Human Services

Career Cluster: Architecture and Construction; Arts, AV Technology and Communications; Agriculture, Food and Natural Resources; Finance; Hospitality and Tourism

Students learn core functions of the human services field; individual, family, and community systems; and life literacy skills for human development. Emphasis is placed on professional skills, human ecology, diversity, analyzing community issues, and life management skills. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing. English/language arts, social studies, mathematics, science, technology, interpersonal relationships are reinforced.

Scientific and Technical Visualization I

Prerequisite for: Scientific and Technical Visualization II

Career Cluster: Science, Technology, Engineering, Math; Arts, AV Technology and Communications

This course introduces students to the use of complex graphic tools. Emphasis is placed on the principles, concepts, and use of complex graphic and visualization tools as applied to the study of science and technology. Students use complex 2D graphics, animation, editing, and image analysis tools to better understand, illustrate, explain, and present technical, mathematical, and/or scientific concepts and principles. Emphasis is placed on the use of computer-enhanced images to generate both conceptual and data-driven models, data-driven charts and animations. Science, math, and visual design concepts are reinforced throughout the course.

Technology Engineering and Design

Prerequisite for: Technological Design

Career Clusters: Science, Technology, Engineering, Math

This course focuses on the nature and core concepts of technology, engineering, and design. Through engaging activities and hands-on project-based activities, students are introduced to the following concepts: elements and principles of design, basic engineering, problem solving, and teaming. Students apply research and development skills and produce physical and virtual models. Activities are structured to integrate physical and social sciences, mathematics, English language arts, and art.

Microsoft Word and PowerPoint

Prerequisite for: Multi-Media and Webpage Design

Career Cluster: Architecture and Construction; Arts, AV Technology and Communications; Agriculture, Food and Natural Resources; Manufacturing; Information Technology; Finance; Marketing; Science, Technology, Engineering, Math; Business Management Administration; Hospitality and Tourism

Students enrolled in Microsoft IT Academy courses benefit from the use of world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom and have the opportunity to apply their skills and knowledge to earn industry-recognized credentials. In this course, students will learn to use the latest versions of Microsoft Word and Microsoft PowerPoint to create, enhance, customize, share, and deliver complex documents and presentations, such as those used in business and industry. Students enrolled in this course are expected to take the Microsoft Office Specialist (MOS) certification exam for Microsoft Word and Microsoft PowerPoint.

Microsoft Excel and Access

Career Cluster: Architecture and Construction; Arts, AV Technology and Communications; Agriculture, Food and Natural Resources; Manufacturing; Information Technology; Finance; Marketing; Science, Technology, Engineering, Math; Business Management Administration; Hospitality and Tourism

Students enrolled in Microsoft IT Academy courses benefit from the use of world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom and have the opportunity to apply their skills and knowledge to earn industry-recognized credentials. In this course, students will learn to use the latest versions of Microsoft Excel to analyze, manipulate, and present various types of data and Microsoft Access to create, modify, and locate information, as well as how to create programmable elements and share and distribute database information. Mathematics is reinforced throughout the course. Students enrolled in this course are expected to take the Microsoft Office Specialist (MOS) certification exam for Microsoft Excel and Microsoft Access.