

Suggestions for CTE courses for rising 9th grade students 2019-2020

Many of the courses below count in more than one CTE Career Cluster, allowing a student to be introduced to concepts that will be beneficial before taking courses that cover advanced concepts relating to a career interest.

Students can register for any CTE course not requiring a prerequisite. The following courses, however, are suggested courses for rising 9th grade students.

Agriscience Applications SAH/WAH

Course Description: Instruction integrates biological and physical sciences with technology as related to the environment, natural resources, food production, science and agribusiness.

Agricultural Mechanics I SAH/WAH

Course Description: Develops knowledge and technical skills in the broad field of agricultural machinery, equipment, and structures. Topics include agricultural mechanics safety, hand/power tool use and selection, electrical wiring and metal working.

Automotive Services Fundamentals CTEC/WAH

Course Description: This course introduces automotive safety, basic automotive terminology, system & component identification, knowledge and introductory skills in hand tools, shop equipment, basic servicing, and use of service information. Also careers and various job opportunities in the automotive repair industry will be discussed. As part of the NATEF accreditation, topics are aligned to the Maintenance and Light Repair (MLR) requirements.

Career Management

Course Description: This course prepares students to locate, secure, keep, and change careers. Emphasis is placed on self-assessment of characteristics, interests, and values; education and career exploration; evaluation of career information and creation of a career plan.

Core and Sustainable Construction SAH/WAH/EAH/GRH

Course Description: This course covers basic carpentry terminology and develops technical aspects of carpentry with an emphasis on the development of introductory skills. Students will also explore the emerging field of sustainable construction. This course helps prepare students for the National Center for Construction Education and Research (NCCER) certification and is taught by an NCCER certified instructor.

Digital Media CTEC

Course Description: This course provides students with industry knowledge and skills in the digital media design field. Areas covered include graphics, animation, video, and web design. **This course is eligible for Honors weight.*

Drafting I WAH/EAH/WWH

Course Description: Introduction to the nature of drafting and employment opportunities. This course includes basic familiarization with terms and tools of the drafting trade, practice in geometric construction, orthographic projections, and Computer Assisted Drafting (CAD).

Food & Nutrition I

Course Description: This course examines the nutritional needs of the individual. Students learn fundamentals of food production, kitchen and meal management, food groups, and their preparation, and time and resource management.

Horticulture I SAH/VAH

Course Description: Introduces students to the broad field of horticulture, including fruits, vegetables, and ornamental plants. The classroom, greenhouse, and outdoor laboratory are used for instruction where emphasis is placed on "learning by doing." [*This course is eligible for Honors weight.](#)

Interior Design I

Course Description: This course focuses on housing needs and options of individuals and families at various stages of the life cycle. Emphasis is placed on selecting goods and services and creating functional, pleasing living environments using sound financial decisions and principles of design.

Introduction to Computer Science Using MakeCode

Course Description: This course is an introduction to programming for the early secondary grades. The course is designed to attract and reach a broad and diverse range of students, including those who may have never before considered programming. Students learn how to code by working in a real software development environment to design, program and publish mobile apps and games. Learning to code by creating real products, students discover how to make amazing things and have an impact on their world.

Introduction to Culinary Arts and Hospitality CTEC

Course Description: Basic safety and sanitation practices leading to an industry-recognized food safety credential are introduced. Commercial equipment, smallwares, culinary math and basic knife skills are taught. Students may take the exam for the ServSafe Credential from the National Restaurant Association.

Microsoft Word and PowerPoint

Course Description: Students will learn to use the latest version of Microsoft Word, PowerPoint and Publisher to create, enhance, customize and share documents, presentations and publications. Students will have the opportunity to become certified as a Microsoft Office Specialist in Word and PowerPoint. [*This course is eligible for Honors weight.](#)

Microsoft Excel

Course Description: Students will learn to use the latest version of Microsoft Excel to create, enhance, customize and share spreadsheets. Students will have the opportunity to become certified as a Microsoft Office Specialist in Excel.. [*This course is eligible for Honors weight.](#)

Parenting and Child Development

Course Description: This course introduces students to the basic applications of child development theory with children from infancy through age six. Emphasis is on the responsibilities of parents, readiness for parenting and the influence of parents on children while providing care and guidance.

Personal Finance

Course Description: Personal Finance prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities, and information, protect personal and family resources, and apply procedures for managing personal finances.

Principles of Business and Finance

Course Description: This is an introductory course covering principles and concepts that will be the foundation for future study of business and management. Topics of study include basic business principles, personal finance concepts, management concepts, systems thinking, quality, management and the current environment for business in an international marketplace. [*This course is eligible for Honors weight.](#)

Principles of Family & Human Services

Course Description: 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.

Public Safety I GRH

Course Description: This course provides basic career information in public safety including corrections, emergency and fire management, security and protection, law enforcement, and legal services. Additionally students will develop a personal plan for a career in public safety. The course includes skills in each area, using resources from the community to help deliver instruction to the students.

Python Programming I CTEC/SAH

Course Description: This course includes video content, practice labs, and coding projects. The course content is presented in three units. Unit 1 focuses on Python language basics, introducing data types, variables, input, functions, operators, conditional statements, loops, and incrementing. Students will be introduced to the basic structure of the Python 3 language and be ready to take Unit 2 as well as other beginner courses. Unit 2 focuses on Python data structures such as strings, lists, and range sequences, as well as methods for working with these structures. Students will be introduced to data structures and files in Python 3 and be ready to take Unit 3 as well as other beginner courses. Unit 3 focuses on using Python to develop sustainable code. Students will be introduced to data structures and files in Python 3 and be ready for more-advanced Python learning.

Scientific & Technical Visualization I CTEC

Course Description: This state-of-the-art 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 will use complex 2D graphics, animation, editing and image analysis tools to understand, illustrate, explain and present technical and scientific concepts and principles. [*This course is eligible for Honors weight.](#)

Sports & Entertainment Marketing I

Course Description: This course is designed for students interested in an introduction to sports, entertainment, and event marketing. Emphasis is placed on the following principles as they apply to the industry: branding, licensing, and naming rights; business foundations; concessions and on-site merchandising; economic foundations; promotion; safety and security; and human relations.

Technology Engineering and Design CTEC

Course Description: 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. [*This course is eligible for Honors weight.](#)