

Career Technical

BUTLER TECHNOLOGY & CAREER DEVELOPMENT SCHOOLS

Programs identified as “**College Tech Prep**” prepare students for the technical occupations of the future. It is an option which combines secondary education and higher education leading to an associate degree or beyond. College Tech Prep program integrates academic, occupational and employability competencies at all educational levels. Curriculum competencies are designed jointly by local business, industry, and labor representatives along with high school teachers and college faculty. The competencies are sequenced to allow a seamless transition from high school to college.

College Tech Prep Program

- Auto Collision College Tech Prep
- Auto Technology College Tech Prep
- Carpentry College Tech Prep
- Commercial Arts College Tech Prep (Visual Design and Imaging)
- Communication Broadcasting College Tech Prep (Media Arts)
- Construction Electricity College Tech Prep
- Cosmetology College Tech Prep
- Criminal Justice College Tech Prep
- Culinary Arts College Tech Prep
- Early Childhood Education College Tech Prep
- Firefighting Technology College Tech Prep
- Information Technology College Tech Prep (Network Systems)
- Introduction to Power Equipment
- Precision Machining College Tech Prep
- Welding Technology
- Health Technologies Academy College Tech Prep
- Equine Science
- Veterinary Sciences

Characteristics of a College Tech Prep Student

- Grade point average of 2.5 or higher
- Capable, bright, possibly underachieving
- 90% or higher attendance
- C or better in Algebra I
- Manually or mechanically oriented
- May achieve satisfactorily “rote” learning, but is capable of better than average achievement if engaged in hands-on/applied techniques during the learning process
- May be interested in or capable of postsecondary education but currently has little direction
- Interested in technology/science
- Likes/favors practical applications of concepts being taught
- Sense of follow through; completes assignments

Introduction to Information Technology	2 Semesters	1 Credit
<p>With the growing job field of information technology, this course can be considered a pre requisite to this field. It will give the students an introduction to many of the computer technology courses offered at Fairfield High School. The course gives you an introduction to web page design, integration of computer applications, computer trouble shooting and repair, networking of computers, computer software skills and PowerPoint, introduction to computer programming and several other enjoyable skills. These skills can be used in many other opportunities throughout life and your high school career. Project formats are used in the teaching process, enabling students to work at their own pace.</p> <p>This course is open to Sophomore Students only.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Programming & Software Development I College Tech. Prep	2 Semesters	2 Credits
<p>This course is step one of a two-year program for Programming and Software Development. There are several certification tests students will be able to take at the end of the program including Inet+ and MOUS Certifications. The course offers articulation agreements with area colleges so that once a student completes the two-year program, he/she may be eligible to earn college credit for the course and/or may be able to test out of college courses in order to take more advanced courses. The course is based upon the core skills drawn from the itWORKS.OHIO.ORG profile.</p> <p>This course is open to Juniors only.</p> <p>Prerequisite: 11th Grade with an entrance GPA of at least a 2.0; Algebra I with a “C” or better; and on track with high school graduation requirements.</p> <p>Fee: \$20</p>		

Introduction to Business	2 Semesters	1 Credit
<p>This sophomore introductory business course is for students who are considering business as a possible major in college, or simply wanting to learn valuable business skills. Students will get “hands-on” experience in processing actual business transactions in a simulated business community. Students will learn how to develop and present a marketing plan, manage a real-world business, and create business projects using Microsoft Word, Excel, Access, PowerPoint, and Publisher. They will utilize wireless technology and laptop computers in the classroom. As a member of Business Professionals of America, students will gain valuable leadership skills and the opportunity to compete at the state and national levels.</p> <p>This course will be open to Sophomores only.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Programming & Software Development II College Tech. Prep	2 Semesters	2 Credits
<p>This course is a continuation of Programming and Software Development. The main concentration is computer software design and computer programming. The course offers articulation agreements with area colleges so that once a student completes the two-year program, he/she may be eligible to earn college credit for the course and/or may be able to test out of college courses in order to take more advanced courses. The course is based upon the core skills drawn from the itWORKS.OHIO.ORG profile.</p> <p>Students should end the program with a 2.25 or higher. The students will have the opportunity to take multiple attempts at the college entrance tests as well, for example the compass test.</p> <p>This course will be open to Seniors only.</p> <p>Prerequisite: Successful completion of the Applied Technology I course, 12th Grade standing, a GPA of at least a 2.0, Algebra I with a “C” or better, and on track with high school graduation requirements.</p> <p>Fee: \$20</p>		

Business Technologies	2 Semesters	1 Credit
<p>This freshman only class consists of business and management principles, use of Microsoft Office 2007, videos, animation, and new technologies. This course will cover areas of business including: Business Law, Economics & Personal Finance, Marketing, Entrepreneurship, Management, Accounting, International Business, Web Research, Technology in Business, Job Interview Skills and Office 2007. This course serves as a foundation for other career, technical, information technology, and business courses you may elect to take in high school or at Butler Tech. This course will assist you with consumer decisions, career exploration, developing a solid technical/business foundation for the future including job interview skills and resume writing. Students are active members in Business Professionals of America, a national organization for business and technical students.</p> <p>This course will be open to Freshman only.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Business Academy I College Tech. Prep	2 Semesters	2 Credits
<p>This college-prep business course is a two-year program for juniors who plan to major in business in college. During their junior year, students study the basic foundations of business, including Marketing, Management, Economics, Business Law, Entrepreneurship, Business Communications, and Computer Applications. Each student is provided their own laptop for use in the classroom. Students develop technological skills through project-based learning that will benefit them in college and in their future careers. As a member of Business Professionals of America, students will gain valuable leadership skills and the opportunity to compete at the state and national levels.</p> <p>This course will be open to Juniors only.</p> <p>Prerequisite: 2.5 GPA, 95% attendance, Algebra I with a “C” or better, and no credit deficiencies.</p> <p>Fee: \$20</p>		

Business Academy II College Tech. Prep	2 Semesters	2 Credits
<p>The advanced curriculum senior year prepares students for a successful transition to college and career. Seniors study business topics relevant to today’s business professional featuring College Accounting, Management, Marketing, International Business and Advanced Computer Applications using Microsoft Word, Excel, Access, PowerPoint, and Publisher. These college-level business courses look attractive on any college application. Students also have the unique opportunity to earn advanced standing or college credit at our partner colleges. College Tech Prep and BPA scholarships are available for qualified candidates. As a member of Business Professionals of America, students will gain valuable leadership skills and the opportunity to compete at the state and national levels.</p> <p>This course will be open to Seniors only.</p> <p>Prerequisite: Successful completion of Business Academy I or initially entering the program as a senior. 2.5 GPA, 95% attendance, Algebra I with a “C” or better, and no credit deficiencies.</p> <p>Fee: \$20</p>		

Engineering and Manufacturing Design I College Tech. Prep	2 Semesters	2 Credits
<p>The Engineering Design I program is the first step in a two year program that offers introductory to intermediate training in computer-aided drafting and design. Students will be introduced to Mechanical and Architectural theory and design basics which will be used to prepare computer generated drawings. The latest and newest versions of software (Solid Works, A+ Cad, Archicad and others) will be utilized along with state of the art equipment (Pentium 4 computers, 2D Plotter and 3D Printer). There are no prerequisites for this class although Engineering & Manufacturing Foundations or Introduction to Drafting & CAD is highly recommended. All students who select this class are automatically enrolled into the career technical student organization SKILLS USA.</p> <p>This course will be open to Juniors only.</p> <p>Prerequisite: None</p> <p>Fee: \$20</p>		

Engineering and Manufacturing Design II College Tech. Prep	2 Semesters	2 Credits
<p>The Engineering Design II program is the second step in a two year program. This class offers intermediate to advanced training in computer-aided drafting and design. Utilizing the latest and newest versions of software (Solid Works, A+ Cad, Archicad and others) and state of the art equipment (Pentium 4 computers, 2D Plotter and 3D Printer) this class will delve deeper into the development of three dimensional drawings, models and architectural details. This class will also assist the student in the preparation of a portfolio which will benefit in the pursuit of further education or employment. All students who select this class are automatically enrolled into the career technical student organization SKILLS USA.</p> <p>This course will be open to Seniors only.</p> <p>Prerequisite: None</p> <p>Fee: \$20</p>		

Introduction to Construction Technology	2 Semesters	1 Credit
<p>Construction is a foundation level course that will give students an opportunity to explore the trades associated with the building industry. Students will learn basic carpentry, electrical, heating and air-conditioning, plumbing, along with other trades associated with construction. Students in the program are required to join the Career Technical Student Organization known as Skills USA.</p> <p>This course will be open to Freshman only.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Introduction to Transportation Systems	2 Semesters	1 Credit
<p>Transportation is a foundation level course that will give students an opportunity to explore the industries associated with the transportation industry. Students will work with space exploration, flight, hovering, magnetic-levitation, automotive related and other industries associated with transportation. Students in the program are required to join the Career Technical Student Organization known as Skills USA.</p> <p>This course will be open to Freshman only.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Introduction to Engineering & Manufacturing Technologies	2 Semesters	1 Credit
<p>Engineering Foundations class is an introductory course for sophomores interested in engineering and engineering related fields. The main focus of the class is centered on computer aided drafting and manufacturing related topics. Using SolidWorks and A+ Cad, students will learn computer aided drawing skills to create working drawings. Students will also build projects in the manufacturing shop. Building projects out of wood, metal and plastics students will increase students' problem solving skills. Students will also be introduced to machinery used in the manufacturing setting. (such as a Computer Numerically Controlled Mill) This class is highly recommended for all sophomores interested in pursuing a career in manufacturing, engineering architecture, or other technical field. All students who select this class are automatically enrolled into the career technical student organization SKILLS USA.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Introduction to Commercial Art	2 Semesters	1 Credit
<p>This class is for the beginning art student who wants to learn more about how Commercial Art affects everyday life. The course is grounded in learning the principals and elements of design and is project based. Some of the projects include gif animation, logo design, grid drawing, painting, printmaking, Photoshop projects, and basic drawing tutorials. While it is required for the beginning art student to later take Advanced Art classes, it can also be used as a foundation class for the two year Commercial Arts program at D. Russel Lee. All students are expected to join and participate in the local CTSO affiliation, Business Management Club.</p> <p>Prerequisite: None</p> <p>Fee: \$35</p>		

Introduction to Drafting and CAD	2 Semesters	1 Credit
<p>Intro Drafting and CAD is an entry level course open only to sophomores that will provide the student with a solid foundation of basic drafting practices conforming to current industry standards. Line conventions, lettering practice, dimensioning and projection theory form the basis for experience on the computer using CAD software. Students in the program are required to join the Career Technical Student Organization known as Skills USA.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		

Leadership and Coaching in Education	1 Semester	1/2 Credit
<p>This eighteen week course will explore a variety of educational professions ranging from pre-school to post-secondary education with an emphasis on leading large and small groups of students, including peer counseling, one on one tutoring, group leadership, and coaching team activities. This is a sophomore-restricted class and students will be expected to join Future Educators Association.</p> <p>Prerequisite: None</p> <p>Fee: \$10</p>		