Allen Park High School

Career Focused Education/Career & Technical Education

Learning that works for Michigan CTE®

Allen Park High School's CTE program enables students grades 9-12 to become competitive in today's world of Business and Industry while learning in an experiential environment. Students enrolled in some of these courses earn industry certifications with post-secondary articulated credits offered as well.

Programs offered at Allen Park High School

- **Auto Program:** Maintenance and Light Repair
- **Computer Programming/Programmer**
- **Digital/Multimedia & Information Resources Design**
- **Construction Trades**
- **Business Administration, Management & Operations**
- **Finance**

The Michigan Department of Education Office of Career and Technical Education, requires that "Core Performance Indicator" data be gathered and placed on the district's website highlighting the performance of APHS students enrolled and completing CTE courses as compared with the performance of CTE students enrolled at the local and state levels.

The Attainment of Academic Skills in the Reading/Language Arts area, Attainment of Academic Skills in the Mathematics area and Technical Skill Attainment achieved, are reflected on the attached chart for the 2018-2019 school year generated from the Michigan CTEIS data bank.

The "key" containing the "Core Performance Indicators" selections and the explanations that apply to each category on the chart, are also provided directly behind the chart.

CAREER TECHNICAL EDUCATION COURSES IN

***COMPUTER PROGRAMMING/ PROGRAMMER

***DIGITAL MULTI-MEDIA & INFORMATION RESOURCES DESIGN

***BUSINESS ADMINISTRATION, MANAGEMENT & OPERATIONS

***FINANCE



Business and Technology Pathway

Business Administration

Average Salary $75,829
Range $28K to $154K

- Accounting 1 & 2 (CTE)
- Business, Marketing & Finance 1 & 2 (CTE)
- Personal Finance 1 & 2
- Microsoft Imagine Academy
- General Merchandising - School Store (CTE)
- Computer Applications
- Business Math 1 & 2

Information Technology

Average Salary $66,000
Range $61K to $175K

- Python 1 & 2 (CTE)
- C Programming 1 &2 (CTE)
- Software Development Fundamentals 1 & 2 (CTE)
- Digital Multi Media 1 - Web Design (CTE)
- Digital Multi Media 2 - Video Production (CTE)

Completion of a CTE program may serve as a substitute for other requirements under the Michigan Merit Curriculum.

(NCAA) – denotes course approved for use in establishing the certification status of student-athletes by the National Collegiate Athletic Association.

DEPARTMENTAL OFFERINGS
BUSINESS AND TECHNOLOGY
CAREER AND TECHNICAL EDUCATION

SENIORS ONLY have the opportunity to earn ½ math credit for Business Math 1, Business Math 2, Personal Finance 1 and Personal Finance 2. **Admission into this course is by teacher or counselor only.**

The following courses are a recommended course of student for the Business Services and Technology Department.

9th/10th Grade	11th Grade	12th Grade
Computer Applications	Computer Applications	Computer Applications
Internet/Website	Digital Multimedia 1 - Web Design CTE	Digital Multimedia 1 - Web Design CTE
Microsoft Academy I	Digital Multimedia 2 - Web Design CTE	Digital Multimedia 2 - Web Design CTE
Microsoft Academy II	Microsoft Academy I	Microsoft Academy I
Accounting 1 - CTE	Microsoft Academy II	Microsoft Academy II
Accounting 2* - CTE	Accounting 1 - CTE	Accounting 1 - CTE
Personal Finance 1	Accounting 2* - CTE	Accounting 2* - CTE
Personal Finance 2	Personal Finance 1	Business Math 1
Business, Marketing & Finance 1 - CTE	Personal Finance 2	Business Math 2
Business, Marketing & Finance 2 - CTE	Business Law 1	Personal Finance 1
Internet/Website	Business Law 2*	Personal Finance 2
Digital Multimedia 1 - Web Design CTE	Business, Marketing & Finance CTE	Business Law 1
Digital Multimedia 2 - Web Design CTE	Business, Marketing & Finance 2 CTE	Business Law 2*
Python 1 & 2 ** - CTE	C Programming**	Business, Marketing & Finance 1
	Data Base Fundamentals	Business, Marketing & Finance 2
	HTML 5 Development – CTE	General Merchandising*
	Java Programming Fundamentals** - CTE	Computer Pathways
	Python 1 & 2 ** - CTE	C Programming **
	Software Development** – CTE	Data Base Fundamentals
		HTML 5 Development - CTE
		Java Programming Fundamentals**-CTE
		Python 1 & 2** - CTE
		Software Development **– CTE
** **Need Prerequisites**		

712 – COMPUTER PATHWAYS Year 1 Credit
Grades 9 – 12
This course is composed of basic computer and life application skills using Microsoft Office. The area of computer applications includes word processing, spreadsheets and PowerPoint. In addition, record keeping skills, communication, math, career planning, resource management, note taking, and study skills are among the units studied. **This class satisfies the APHS computer requirement for graduation.** ARTS BUSINESS **TECH** HEALTH H.S. NR

720 – COMPUTER APPLICATIONS Semester ½ Credit
Grades 9 – 12
Students will use a computer to develop basic computer skills for personal and business use. Students will use word processing, spreadsheet and charting activities, and presentations to prepare a variety of documents. In addition to the applied computer skills, students will utilize this technology to enhance communications skills. Students will also develop research skills through Internet use. ARTS BUSINESS **TECH** HEALTH H.S. NR

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CAREER AND TECHNICAL EDUCATION

The career and technical education programs follow the Michigan Career Pathways model which focuses students on making informed career preparation decisions for college and career success. Career and technical education programs provide rigorous and relevant learning that enables students to effectively compete in an expanding global economy. Although each program offers unique opportunities, the hallmark of the career and technical education is to provide students with the technical skills, relevant academic skills, career employability skills and 21st century skills needed for success in both college and career. In order to best prepare students for post-secondary success, career and technical education programs have begun to offer free articulated college credit specific to the technical program. Additionally, specific programs have met the standard to offer the certain academic credits, specifically for the visual, performing, and applied arts and the fourth year related math credit requirement. Please check individual course description for more information.

****Completion of a CTE program may serve as a substitute for other requirements under the Michigan Merit Curriculum ****

329DM – DIGITAL MULTIMEDIA 1 / Web Design I – CTE
(Formerly Internet/Website) Semester ½ Credit
Grades 9 - 12
Prerequisite: Knowledge of keyboarding and Microsoft Word preferred.
**This course will satisfy the visual, performing or applied arts graduation requirement.
This course will introduce students to Web Design and Video Production. In Web Design the student will learn how to create and maintain a web site using HTML and Adobe Dreamweaver. Want to make extra money? Sell items for family or friends on Ebay? The student will also be exposed to selling on Ecommerce by creating advanced selling listings that could be used on Ebay or Craigslist. Students will experience filming, editing, and directing a variety of video projects. These projects will include music videos, commercials, instructional videos, short movies, and television shows. This is a very hands course with heavy focus on learning basic equipment and editing software. ARTS BUSINESS **TECH**

700DM – DIGITAL MULTIMEDIA 2 – Video Production - CTE
(Formerly Video Editing) Semester ½ Credit
Grades 9 - 12
**This course will satisfy the visual, performing or applied arts graduation requirement
Digital Multimedia 1 is not required to take Digital Multimedia 2 but highly recommended. In this course the student will go into greater detail about maintaining web sites and development. The student will also be introduced to learning how to fly, tune and capture Ariel footage using a drone. **TECH**

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722 - ACCOUNTING 1 – (CTE)
Satisfies 4th year math credit
Grades 10 – 12 Semester ½ Credit

Accounting is the language of business. Knowledge of accounting enhances career opportunities regardless of the individual's chosen field. This class provides an excellent foundation for college level courses involving multiple aspects of business. Topics include an introduction to double entry accounting. This course will introduce the student to accounting vocabulary and techniques by progressing through the accounting cycle for a Service Business. Students will also set up a business using an Accounting software program. BUSINESS **TECH**

724 - ACCOUNTING 2 – (CTE)
Satisfies 4th year math credit
Grades 10 – 12 Semester ½ Credit

Prerequisite: Successful completion of Accounting 1

This class is a continuation of Accounting 1. The course will introduce the student to accounting vocabulary and techniques by progressing through the accounting cycle for a Merchandising Business. Students will also set up a business using an Accounting software program. BUSINESS **TECH**

704 – BUSINESS, MARKETING AND FINANCE 1 – CTE
Grade 10 – 12 Semester ½ Credit

Business and commerce drives the world's economy and have the greatest impact on our lives, locally and globally. This course focuses on careers that direct financial, human and material resources towards a goal of profitability. If you want to own your own business or pursue a Business degree in college, this course is designed for you. The course will help you develop talents, abilities and basic business skills to be prepared for a variety of business related career paths. The completion of Business, Marketing and Finance 1 and 2 are required to work in the student store. BUSINESS **TECH**

705 - BUSINESS, MARKETING AND FINANCE 2 – CTE
GRADE 10 – 12 Semester ½ Credit

Business Marketing and Finance 1 are not required to take Business, Marketing and Finance 2 but highly recommended. This course will empower students with essential skills for entering today's competitive workforce. Planning on having a career in sales, marketing, service or owning your own business, then this course is designed for you. Students will learn manufacturing costs, marketing sales and advertising budgets. The students will also examine the most efficient techniques to allocate resources such as staff and inventory. The completion of Business, Marketing and Finance 1 and 2 are required to work in the Student Store. **TECH**

751/752 – GENERAL MERCHANDISING
Grade 12 Year 1 Credit

Prerequisite: Teacher Permission **This course will satisfy the visual, performing or applied arts graduation requirement.

This course will provide students with an opportunity to study curriculum related to marketing and retail as well as participate in school-related activities that will incorporate the skills learned. Units of study include marketing, accounting inventory control, analysis of products, consumer interest, communication, customer service and advertising. Students will manage the school store and be accountable for all components of the business, including buying and selling, analysis of market trends, display design, advertising, and other components necessary to operating a store. Students are expected to work in the school store before the first hour bell, during A and B lunches, and at numerous after school events, including but not limited to Parent Teacher Conferences, Meet the Teacher Night and 8th Grade Orientation. **TECH**

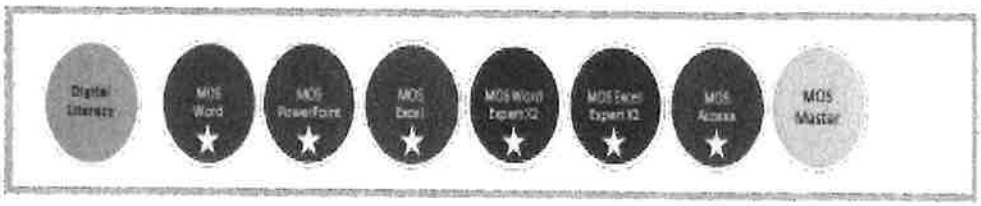
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MICROSOFT IMAGINE ACADEMY

Students enrolling and passing the courses in the Academy have the opportunity to take the Microsoft Certification Exam associated with the content. Upon successfully passing the Microsoft Certification Exam, students will receive an industry recognized certification in that area content.

Microsoft Office Certifications

☆ Starred circles indicate the existence of a corresponding Microsoft certification exam.



330 – MICROSOFT ACADEMY I Semester ½ Credit

Grades 9-12

Do you want to obtain Microsoft Office Certification? Students in the Microsoft Imagine Academy benefit from a world-class Microsoft curriculum and software tools to tackle real-world challenges in the classroom environment. Students will learn to use Microsoft Word 2016 interface, commands, and features to create, enhance, customize, share and create complex documents and publish them. By the end of this course, students are expected to earn industry recognized certifications in Microsoft Word and Microsoft Word Expert. (NCAA) BUSINESS **TECH**

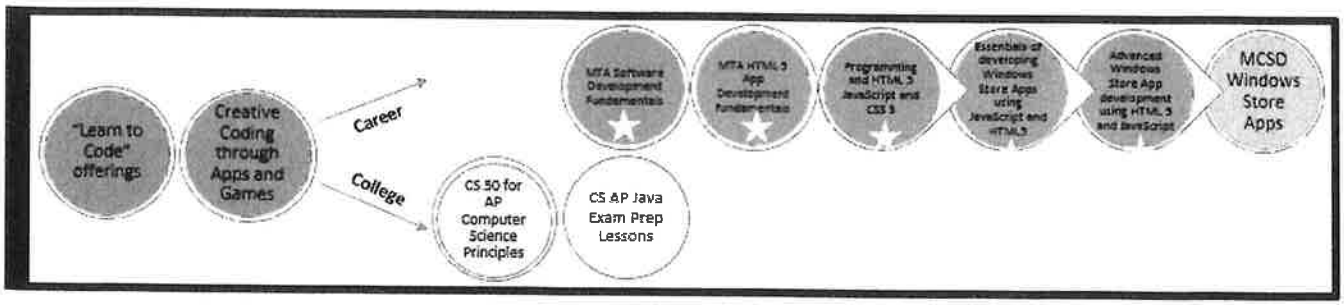
331- MICROSOFT ACADEMY II Semester ½ Credit

Grades 9-12

Do you want to obtain Microsoft Office Certification? Students will learn to use Microsoft Excel 2016 interface, commands, and features to create real-world spreadsheets using formulas, graphs and charts; Microsoft PowerPoint 2016 interface, commands, and features to create, enhance, customize and deliver presentations. By the end of this course, students are expected to earn industry recognized certifications in Microsoft Excel and PowerPoint 2016. (NCAA) BUSINESS **TECH**

Computer Programming/Science

☆ Starred circles indicate the existence of corresponding Microsoft certification exam.



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PROGRAMMING SEQUENCE – Courses are 1 semester in length.

Programming #1

Course 708
PYTHON 1
Grades 9-12 **½ credit**

Programming #2

Course 709
PYTHON 2
Grades 9-12 **½ credit**

Programming #3

Course 328
C PROGRAMMING 1
Grades 10-12 **½ credit**

Programming #4

Course
C PROGRAMMING 2
Grades 10-12 **½ credit**

Programming #5

Course 755
SOFTWARE DEVELOPMENT FUNDAMENTALS 1
Grades 10-12 **½ credit**

Programming #6

Course 756
SOFTWARE DEVELOPMENT FUNDAMENTALS 2
Grades 10-12 **½ credit**

328 – C PROGRAMMING 1 (CTE) Semester ½ Credit
Grades 10 - 12
Prerequisite: *Successful completion of Python 1 & 2*
A course designed to introduce the student to the C programming language. The purpose is to develop skills in flow charting, programming structures and programming commands when used with string and numeric variables in the most popular programming language used by developers of computer applications for computers that operate under a Graphical User Interface. Assessment will be made through the use of tests, as well as homework assignments and long term projects that allow the student to demonstrate his/her proficiency in operating a computer and developing a project from concept to final product individually and as a team member. (NCAA) BUSINESS **TECH**

C Programming 2 (CTE) Semester ½ Credit
Grades 10 – 12
Prerequisite: *Successful completion of Python 1 & 2 and C Programming 1*
C Programming 2 will add project-based learning and hands-on engagement. Students will apply the skills that were learned in C Programming 1 as well as new information to program functioning robots to perform tasks. These functions include the use of more advanced data structures to allow more advanced control over the robots. (NCAA) BUSINESS **TECH**

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356 - INDEPENDENT STUDY - COMPUTER SCIENCE Semester ½ Credit
Grades 11 - 12
Prerequisite: B or better in previous computer science course and permission of computer coordinator.
Students will have opportunity to research and develop computer science topics of personal interest. All projects will be under the direction of the computer coordinator. Projects may include evaluating and adapting software, writing original computer programs, hardware modification and repair, and writing reviews of current computer literature. A weekly log and a written final report will be required. All Independent Studies are reviewed by a committee of adults at the end of the semester in order to assure that the criteria for an Independent Study have been met BUSINESS **TECH**

706 – Q BASIC PROGRAMMING (CTE) Semester ½ Credit
Grades 9 – 12
Prerequisites: none
This course presents the basic building blocks of computer logic and the construction of simple BASIC programs using that logic. Using problem-solving techniques, students will create appropriate solutions to simple business problems and then convert these solutions into BASIC programs using a structured style. Students will also learn data flow concepts. (NCAA) BUSINESS **TECH**

707 – VISUAL BASIC PROGRAMMING (CTE) Semester ½ Credit
Grades 10 – 12
Prerequisite: *Successful completion of Python 1 & 2*
Programming with Microsoft Visual Basic for Windows is designed as a beginning programming course. This course teaches programming concepts using a task-driven rather than a command-driven approach. Students will explore the fundamentals of object-oriented programming and designing applications they are likely to encounter in the workplace. BUSINESS **TECH**

753 – DATABASE FUNDAMENTALS (MTA)
Grades 9-12 Semester ½ Credit
Prerequisites: Computer Applications or Microsoft Imagine Academy
This database training for beginners introduces and defines the terminology, concepts, and skills you need to understand database objects, security requirements, graphical tools, T-SQL scripts, and writing database queries, in addition to executing stored procedures. The database training course is designed for individuals seeking to learn database fundamentals, including relational databases, database management systems, and database components.

754 – CREATIVE CODING THROUGH GAMES & APPS (CCGA) (CTE)
Grades 9 – 12 Semester ½ Credit
Prerequisites: none
A first course introduction to Touch Development 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. (NCAA) BUSINESS **TECH**

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755 – SOFTWARE DEVELOPMENT FUNDAMENTALS 1 (MTA) (CTE)
Grades 10 – 12 Semester ½ Credit
Prerequisite: *Successful completion of Python 1 & 2 and C Programming 1 & 2*
The MTA certification program is designed specifically for secondary and post-secondary students interested in exploring academic and career options in a technology field. It offers students a certification in basic IT and development. As the new recommended entry point for Microsoft technology certifications, MTA is designed especially for students new to IT and software development. Introduction to Programming using C# and Introduction to Object-Oriented Programming is covered. (NCAA) BUSINESS **TECH**

756 – SOFTWARE DEVELOPMENT FUNDAMENTALS 2 (MTA) - (CTE)
Grades 10 – 12 Semester ½ Credit
Prerequisite: *Successful completion of Software Development 1*
The MTA certification program is designed specifically for secondary and post-secondary students interested in exploring academic and career options in a technology field. It offers students a certification in basic IT and development. As the new recommended entry point for Microsoft technology certifications, MTA is designed especially for students new to IT and software development. Understanding Web Applications, Understanding Desktop Applications, and Understand Databases are covered. (NCAA) BUSINESS **TECH**

757 – HTML5 APPLICATION DEVELOPMENT FUNDAMENTALS - (CTE)
Grades 10 – 12 Semester ½ Credit
Prerequisite: *Successful completion of Software Development Fundamentals 1 & 2*
HTML5 is the latest HTML standard and a family of technologies that includes HTML CSS, and JavaScript. Although the HTML5 standard won't be finalized for a few years, most modern Web browsers already support HTML5 elements, and HTML5 app development for Web and mobile device browsers is well underway. (NCAA) BUSINESS **TECH**

708 - PYTHON 1 – (CTE)
Grades 9 – 12 Semester ½ Credit
Prerequisite: *None*
In Python 1, students will learn the fundamentals of the Python Programming Language. This includes learning the syntax and basic structures in the Python language that will aid you in making basic programs, as well as provide the fundamentals for more advanced coding in Python 2. (NCAA) BUSINESS **TECH**

709 – Python 2 – (CTE) Semester ½ Credit
Grades 9 – 12
Prerequisite: *Successful completion of Python 1*
Python 2 will add project-based learning and hands-on engagement. Students will apply the skills that were learned in Python 1 as well as new information to program functioning robots to perform tasks. These functions include the use of more advanced data structures to allow more advanced control over the robots. (NCAA) BUSINESS **TECH**

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710 - JAVA PROGRAMMING FUNDAMENTALS – (CTE)
Grades 10 – 12 Semester ½ Credit
Prerequisite: *Successful completion of Python 1 & 2, C Programming 1 & 2, Software Development 1 & 2*
Java Programming is a series of online activities to introduce Java programming aligned to AP Computer Science (A) curriculum. Each activity is an Office Mix lesson with a topic introduction/review, coding examples, and interactive challenges based on Code Hunt solved by writing Java code. This course introduces computer **programming** using the **JAVA programming** language with object-oriented **programming** principles. Emphasis is placed on event-driven **programming** methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. (NCAA) BUSINESS **TECH**

309 – BUSINESS MATH 1 Semester ½ Credit
Satisfies 4th year math credit
Grades 10 - 12
This Business Math course will empower students with essential skills for entering today's competitive workforce. Planning on having a career in sales, marketing or service, then this course is highly recommended. Students will learn manufacturing costs, marketing sales and advertising budgets. The student will also examine the most efficient techniques to allocate resources such as staff and inventory. Students will also examine ways to analyze profit and loss statements.

310 – BUSINESS MATH 2
Satisfies 4th year math credit Semester ½ Credit
Grades 10 - 12
This course includes understanding income and how career choices affect future income; money management, using a checking account and keeping good records as well as creating a financial plan; spending and credit, options and strategies for saving and investing. Students will also explore management styles, the stock market from a business perspective, including percentages, inventory, depreciation, cash and trade discounts, simple interest, mark-on, distribution of overhead and money management techniques. The knowledge and skills students learn through this class will help them make good financial decisions now and in the future.

404 – PERSONAL FINANCE 1 Semester ½ Credit
Satisfies 4th year math credit
Grade 10-12
Understanding and managing personal finances is the key to future financial success. This knowledge can maximize an individuals earning potential. This class is designed to inform students of various financial responsibilities in life. Students continuing their education or entering the workforce will face a robust marketplace of financial products and services. Part one of this course will examine gross pay, deductions from gross pay, federal and city taxes, employment benefits, and analyze net pay. Part two will introduce checking accounts, saving accounts, electronic banking, check register reconciliation, money markets, certificate of deposit accounts and annuities.

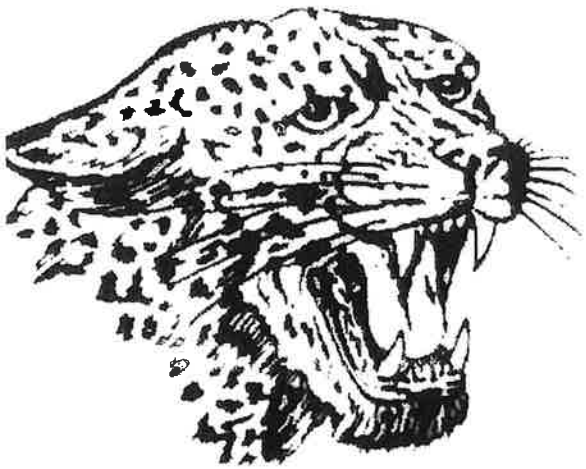
405 – PERSONAL FINANCE 2 Semester ½ Credit
Satisfies 4th year math credit
Grade 10-12
You do not need to take Personal Finance 1 to take Personal Finance 2.
Personal Finance 2 will continue to inform the student about managing their hard earned money. The Personal course will concentrate on credit card costs, finance charges, cash advances and debt management. The student will compare owning a home as opposed to renting a home, buying or leasing a car. In addition, we will investigate the costs incurred when owning a home or car and the process required to make such investments.

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732 - BUSINESS LAW 1 Semester ½ Credit
Grades 10 – 12
Prerequisite: none
Business Law 1 is an introduction to the basic characteristics of the American legal system for everyday living. Emphasis will be placed on the four kinds of law (i.e. constitution, case, statutory, and administrative) as they pertain to law enforcement, the courts, crimes and contracts. Additionally, the course will contain a "Law in the Literature" component wherein the student will discover and examine current legal issues as presented in the print media. (NCAA) BUSINESS

734 - BUSINESS LAW 2 Semester ½ Credit
Grades 10 - 12
Prerequisite: Successful completion of Business Law 1 or teacher permission
This class is a continuation of Business Law 1. Major topics include commercial paper, legal implications of employment, debtors, creditors, and secured property insurance, and real property. Students in this course will participate in an independent project. (NCAA) BUSINESS

751/752 – GENERAL MERCHANDISING
Grade 12 Year 1 Credit
Prerequisite: Teacher Permission
**This course will satisfy the visual, performing or applied arts graduation requirement.
This course will provide students with an opportunity to study curriculum related to marketing and retail as well as participate in school-related activities that will incorporate the skills learned. Units of study include marketing, accounting inventory control, analysis of products, consumer interest, communication, customer service and advertising. Students will manage the school store and be accountable for all components of the business, including buying and selling, analysis of market trends, display design, advertising, and other components necessary to operating a store. Students are expected to work in the school store before the first hour bell, during A and B lunches, and at numerous after school events, including but not limited to Parent Teacher Conferences, Meet the Teacher Night and 8th Grade Orientation. **TECH**



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CAREER TECHNICAL EDUCATION COURSES IN AUTOMOTIVE TECHNOLOGY/AUTO SERVICING

DEPARTMENTAL OFFERINGS
ELECTIVES/CAREER AND TECHNICAL EDUCATION

Two (2) semesters (1 credit) is required in the visual, performing or applied arts.

AUTO TECHNOLOGY AUTO TECHNOLOGY AUTO TECHNOLOGY

All courses in the Auto Technology section can be counted for the applied arts credit.

The Automotive Technology Program is accredited by NATEF, The National Automotive Technicians Education Foundation, an organization that examines the structure, resources and quality of automotive training programs and evaluates them against national industry standards. Upon completion of this multi-year program, students have the opportunity to be ASE Student certified by taking and passing the ASE Student Certification test.

SENIORS ONLY have the opportunity to earn ½ math credit and ½ elective credit if they take drafting/CAD/architecture for a full year and pass both semesters. ***This also applies to Auto 2 and Auto 3.*** Senior students who elect this option and fail the first semester will void this option and will need to make up the math credit during the second semester. If a student passes the first semester but chooses to not take a second semester, the student will earn ½ elective credit and will need to make up the math credit. ** Reminder: Courses cannot be counted for two separate graduation requirements.

844 - AUTO ELECTRICAL Semester ½ Credit
Grades 10 - 12
This course will deal with automotive electrical circuits. Students will become familiar with electrical principles and the various methods of producing electricity. The use of electrical test equipment will be stressed along with testing automotive electrical circuits. **TECH**

820 - SMALL ENGINES Semester ½ Credit
Grades 9 - 12
This class is a study of the small engine. This course will include the principles and operation of two and four-cycle engines, carburetion, ignition, and basic maintenance, and repair of both two and four cycle internal combustion engines. **TECH**

830 - AUTOMOTIVE DETAILING Semester ½ Credit
Grade 11 – 12
This class will give students an opportunity to experience some of the latest trends in the automotive field. Course content will include interior and exterior cleaning, reconditioning, touch-up, minor repair, air brushing and pin-striping. Clean, inspection, touch-up and powder coating the engine compartment will be also be covered. **TECH**

831/832 - AUTO 1 - CTE Year 1 Credit
Prerequisite: Must be 15 years old
Auto I is a study of automotive fundamentals with emphasis on minor repair and preventative maintenance. This includes tune-ups, brakes, cooling system, lubrication and vehicle service. **TECH**

842/843 - AUTO 2 - - CTE Year 1 Credit
Prerequisite: Auto 1
This course will reinforce material from Auto 1 and introduce more technical areas of servicing. The areas include welding, valve grinding, brake lathe operation, exhaust analysis, wheel alignment, air conditioning, oscilloscope operation, fuel systems and scan tools. **TECH**

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ELECTIVES/CAREER AND TECHNICAL EDUCATION COURSE DESCRIPTIONS

847/848 - AUTO 3 - CTE Year 1 Credit
Grade 11 -12
Prerequisite: Auto 2 and permission of instructor
Auto 3 is a combined student/instructor program. The course will include some instruction, major automotive repairs, shop maintenance, and shop projects for future shop use. **TECH**

849/850 – AUTO 4 Year 1 Credit
Grade 12
Prerequisite: Auto 2 and permission of instructor. Auto Independent Study provides an opportunity for a student to further pursue a specialized area during regularly scheduled classes. The student will assist the auto instructor with Auto I students. **TECH**

CAREER TECHNICAL EDUCATION COURSES IN CONSTRUCTION TRADES

841 - 3D DESIGN CAD 1 Semester ½ Credit
Grades 9-12
This course will teach students the fundamentals of drawing mechanical components using 3D software called Solidworks. Students will learn tools and techniques of using Solidworks while also learning to draw mechanical parts. This class will be entirely computer based. Students interested in careers in manufacturing, construction, architecture and engineering should take this course. *ARTS* **TECH**

846 – 3D DESIGN CAD 1 Semester 1/2 Credit
Grades 10 - 12
Prerequisite: 3D DESIGN CAD 1
This course will continue to use the Solidworks program. Students will draw solid, 3D models, a range of assemblies, and create presentations using the Solidwork software. The class will focus on the student's problem solving skills as a draftsman. Careers are covered. *ARTS* **TECH**

WOODWORKING WOODWORKING WOODWORKING

All courses in Woodworking section can be counted for the applied arts credit.

SENIORS ONLY have the opportunity to earn ½ math credit and ½ elective credit if they take woodworking for a full year and pass both semesters. Senior students who elect this option and fail the first semester will void this option and will need to make up the math credit during second semester. If a student chooses to drop woodworking at the end of the first semester with a passing grade, that student will earn ½ elective credit and will need to make up the math credit. Reminder: Courses cannot be counted for two separate graduation requirements.

814 - INTRODUCTORY WOODWORKING Semester ½ Credit
Grades 9 - 12
This course will provide the student with information and hands on experience in working with wood. The course will cover basic hand tools, safety procedures, developing a plan of procedure, project design, machine safety, machine maintenance, and joinery. **TECH**

821 – DESIGN AND STRUCTURES Semester ½ Credit
Grades 9 – 12
Students will design and build small structures with a variety of materials to meet specific requirements. The structures will be evaluated through several testing methods, most often failure analysis. This course will introduce students to Google Sketchup Software to create mechanical parts and interior designs. Students interested in careers in, manufacturing, construction, architecture, and engineering should take this course. **TECH**

822 – HOME REPAIR Semester ½ Credit
Grades 9 – 12
Students will be introduced to the processes and procedures typically used in the field of residential construction. Students will construct scale walls to include plumbing, electrical, and interior wall finish. Students will gain experience in design, drywall repair, framing, permit process, material selection, residential mechanical systems, and a variety of interior floor and wall finishing. **TECH**

(NCAA) – denotes course approved for use in establishing the certification status of student-athletes by the National Collegiate Athletic Association.

823 – CABINET MAKING Semester ½ Credit
Grades 9 – 12
Students will be introduced to the design and construction of cabinetry found in the furniture industry. Students will be required to design and build a cabinet for their personal use. Example projects include nightstands, toy boxes, hope chests, file drawer cabinets. **TECH**

824 – FURNITURE MAKING Semester ½ Credit
Grades 9 – 12
Students will be introduced to the design and construction of residential furniture. Students will be required to design and produce a piece of furniture for their personal use. Example projects include coffee tables, end tables, computer desks, and bookcases. **TECH**

825 - DORM ROOM FURNITURE Semester ½ Credit
Grade 12
Students will design and build a piece of compact furniture for use in a typical college dorm room. Examples include a computer desk, bookcase, nightstand and small storage locker. Students can also build lofts with approved plans from the university they intend on attending. (Most major universities offer plans with structural detail on their websites.) **TECH**

815/816 - WOODWORKING 1 Year 1 Credit
Grades 10 - 12
Prerequisite: Introductory Woodworking or Furniture making or Cabinetmaking
This course will continue with the study of woods by allowing the students to create larger and more complex projects. The course will cover lamination, cabinetry, finishing techniques, plastic laminates, adhesives, machine safety, machine maintenance, and principles of design. **TECH**

817/818 - WOODWORKING 2 Year 1 Credit
Grades 11 - 12
Prerequisite: Woodworking 1
This course will continue with the study of woods. This course will provide experiences with complex woodworking machinery, thickness sanding, overarm routing, and using the shaper. These techniques will be used to produce cabinets and complex projects, and pattern making. **TECH**

819/820 - WOODWORKING 3 Year 1 Credit
Grades 11 - 12
Prerequisites: Woodworking 1, concurrent enrollment in Woodworking 2, and instructor's permission
This course will continue with the study of woods. The student will use this class to work on projects from the Woodworking 2 class and assist the instructor with maintaining machinery and the facility. The student will also assist with the design and building of projects designed for classroom use. **TECH**

855 - WOODWORKING - INDEPENDENT STUDY Year 1 Credit
Grade 12
Prerequisites: Woodworking 2 or concurrent enrollment in Woodworking 2, instructor's permission
This course will continue with the study of woods. The student will use this class to work on projects from the Woodworking 2 class and assist the instructor with maintaining machinery, helping students with their projects, and maintaining the facility. **TECH**

(NCAA) – denotes course approved for use in establishing the certification status of student-athletes by the National Collegiate Athletic Association.

860/861 - CONSTRUCTION TRADES 1 - CTE Year 1 Credit
Grades 10, 11, & 12
Prerequisite: Drafting or Woods
Students will be introduced to practices and procedures common to modern construction techniques. The course will cover blue print interpretation, new construction, renovation, and general home repairs. Students will be required to design and build a storage shed to meet all current local and state building codes. **TECH**

862/863 - CONSTRUCTION AND BUILDING MAINTENANCE Year 3 Credits
Grades 11 - 12
Prerequisite: Construction Trades 1 or Instructor's Approval
This course is designed for the student interested in pursuing a career in the area of residential contracting or home repair. Students will be introduced to practices and procedures common to modern residential construction techniques. Course will cover demolition, blue print interpretation, new construction, renovation, and general home repair. This course meets three hours per day. **TECH**

864/865 - CONSTRUCTION TRADES 2 - CTE Year 1 Credit
Grades 11 - 12
Prerequisite: Construction Trades 1 or Instructor's Approval
This is a site-based class that will require students to work in true job setting. Students will be introduced to practices and procedures common to modern construction techniques. The course will cover demolition, blue print interpretation, new construction, and renovation. Students will be required to build residential structures that do not require an occupancy permit from architectural drawings to meet all current local and state building codes. This course meets three hours per day. **TECH**

866/867 - CONSTRUCTION TRADES 3 - CTE Year 1 Credit
Grade 12
Prerequisite: Construction Trades 2 and Instructor's Approval
This course is the final sequence for a student choosing to pursue a career in the field of construction. Students must apply to the instructor to enroll in this class. All instruction takes place on the job site where students will work to complete the building of an actual house. Students will be introduced to practices and procedures common to modern residential construction techniques covering all aspects of home construction from permit application to warranty repairs. This course meets three hours per day. **TECH**

868/869 – CONSTRUCTION TRADES – COMMERCIAL CABINET & COUNTERTOP MAKING
Grade 11 - 12 Year 1-3 Credits
Prerequisite: Intro Woods
Students will learn how to lay out and design cabinets to custom fit a designated area related to the commercial industry. The program will transform raw materials to finished products such as store display fixtures, greeting counters, storage units, and kitchen serving areas. Upon completion of this program students should be able to gain entry level positions in the field of cabinet making. **TECH**

(NCAA) – denotes course approved for use in establishing the certification status of student-athletes by the National Collegiate Athletic Association.

Secondary Annual Performance Evaluation (2018-2019)

Carl D. Perkins Career and Tecnnical Education Act of 2006

Michigan Department of Education

Office of Career and Technical Education - CTEIS REPORT

Area Totals
CEPD Number: 42
Fiscal Agency: 82020 Allen Park Public Schools
Operating Building: 00065 Allen Park High School
CIP Code: **CIP Name:**

Core Performance Indicator	State Required	State Actual		CEPD		Fiscal Agency		Operating Building	
	%	#	%	#	%	#	%	#	%
1S1 Attainment of Academic Skill - Reading/Language Arts	58	17879 31053	57.6	2311 4102	56.3	45 63	71.4	45 63	71.4
1S2 Attainment of Academic Skill - Mathematics	34	10790 31058	34.7	1420 4102	34.6	34 63	54	34 63	54
2S1 Technical Skill Attainment	46	11884 18705	63.5	1181 1912	61.8	17 55	30.9	17 55	30.9
3S1 School Completion	97	33902 34438	98.4	4247 4320	98.3	82 82	100	82 82	100
4S1 Student Graduation Rates	96	31211 32307	96.6	4287 4430	96.8	66 69	95.7	66 69	95.7
5S1 Placement	96	23370 24254	96.4	2708 2821	96	37 40	92.5	37 40	92.5
6S1 Nontraditional Participation	28	14104 49709	28.4	1389 4836	28.7	18 168	10.7	18 168	10.7
6S2 Nontraditional Completion	45	2425 4966	48.8	213 523	40.7	1 6	16.7	1 6	16.7

Region 29 Core Performance Indicator (CPI) Worksheet For 2021-22

District: Allen Park Public Schools

Person Completing Worksheet: Karen Moran

General Information: CTEIS CPI data from 2019-20 is used for 2021-22 District SMART Goals & Activities, Regional Improvement Plan & Perkins Application

If your district's % for any CPI is below 90% of the State Required %, you must have at least one SMART Goals & CPI Activity/Strategy to impact this CPI deficiency.

Directions: Note that you are to insert data & information in green *sections only*

1. List your district's CPI percentages in Column 6
2. If your district's percentage in Column 6 is **below** the 90% state required (Column 3), place an "X" in Column 7
3. In Column 8, state the SMART Goal for the specific CPI. The measurale data must be available prior to the end of the 2021-22 school year.
4. In Column 9, define the activities aimed to assist with meeting the SMART Goal. State the applicable CPI activities (e.g. 2S1-1).

NOTE: Data must be provided for each CPI. http://analytics.cteis.com/ http://www.cteisreports.com/

CPI Information From 2019-20 is used for 2021-22

Column 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9
CPI	State Required %	90% of State Required %	Region %	Region Below State 90%	District %	District Below State 90%	S.M.A.R.T. Goal	CPI Activity/Strategy
1S1 - Four-Year Graduation Rate	95.00%	85.50%	95.63%	----	96.7 %		None Needed	Not required
2S1 - Academic Proficiency in Reading	58.00%	52.20%	47.45%	X	56.25%		None Needed	Not required
2S2 - Academic Proficiency in Math	34.00%	30.60%	29.78%	X	39.58%		None Needed	Not required
2S3 - Academic Proficiency in Science								
3S1 - Post-Program Placement	95.00%	85.50%	95.45%	----	94.34%		None Needed	Not required
4S1 - Non-traditional Program Concentration	19.00%	17.10%	27.72%	----	27.50%		None Needed	Not required
5S1 - Program Quality Credential Attained								

Completer Summary Report for 2019-2020

Learning that works for Michigan CTE®

Michigan Department of Education

MICHIGAN CTEIS

Office of Career and Technical Education - CTEIS REPORT

CEPD: 42
Agency: (82020)- Allen Park Public Schools
District: (82020)- Allen Park Public Schools
Building: (00065)- Allen Park High School

CIP Code	PROGRAM NAME	Completer	Completer Pend. Assessments	Concentrators	Enrollees
11.0201	Computer Programming/Programmer	7	0	28	56
11.0801	Digital/Multimedia & Information Resources Design	17	0	20	23
46.0000	Construction Trades	1	0	0	0
47.0604	Automobile Technician (ASE Certified)	0	3	71	50
52.0299	Business Admin Mgt & Operations	9	1	12	24
52.0800	Finance & Financial Mgt Services	21	0	28	10

CTE PERKINS
CPI and Activity Selections

CPI SELECTIONS

1S1 – Academic Attainment/Reading
1S2 – Academic Attainment/Math
2S1 – Technical Skill Attainment
3S1/4S1 – Secondary School Completion/Student Graduation Rates
5S1 – Secondary Placement
6S1 – Nontraditional Participation
6S2 – Nontraditional Completion

1S1: Academic Attainment/Reading

Activity Selections:

1. Support: CTE students with deficiencies in reading skills will receive appropriate support services.
2. Professional Development: CTE instructors will receive training on the integration of reading concepts in their CTE programs and the use of contextual reading activities.
3. Use of Quality Data: Quality data will be used to drive decision-making to continuously improve CTE student skills in reading.
4. Curriculum Integration: The educational agency will align CTE curricula with reading content expectations aligned to MME Academic Competencies.

1S2: Academic Attainment/Math

Activity Selections:

1. Support: CTE students with deficiencies in math skills will receive appropriate support services.
2. Professional Development: CTE instructors will receive training on the integration of math concepts in their CTE programs and the use of contextual math activities.
3. Use of Quality Data: Quality data will be used to drive decision-making to continuously improve CTE student skills in math.
4. Curriculum Integration: The educational agency will align CTE curricula with math content expectations aligned to MME Academic Competencies.

2S1: Technical Skill Attainment

Activity Selections:

1. Program Standards: Implementation of the required state-approved CTE program standards, including curriculum improvement, to increase student engagement.
2. Program Expectations: CTE teachers will assist students to develop an understanding of all aspects of an industry.
3. Appropriate Placement: Provide clear program expectations and course requirements so that CTE students will understand and meet program standards.
4. Support Services: Provide tutoring, support services, and learning opportunities for CTE students to help them achieve the technical skills required in the CTE program.
5. Program Improvement: Purchase of instructional equipment for state-approved programs.

3S1/4S1: Secondary School Completion/Student Graduation Rate

Activity Selections:

1. Support Services: Identify and provide support services to students enrolled in state-approved CTE programs at-risk of dropping out of high school or not graduating with their 4-year cohort.
2. Mentoring: Provide activities to increase student engagement and retention in CTE programs.
3. Postsecondary Options: Support participation in articulated credit, direct credit, or dual enrollment options for students at-risk of dropping out.
4. Attendance: Track attendance of CTE students and implement a system to notify parents.

5S1: Secondary Placement

Activity Selections:

1. Program Improvement/Placement: Use placement and labor market data and skill set requirements to evaluate and improve programs and increase student placement.
2. Employer Involvement: Increase employer awareness of student qualifications and availability for related employment.
3. Student Career Options: Improve student awareness of career options, related employment, and postsecondary education opportunities.
4. Completion of CTE Programs: Support and encourage CTE students to complete their CTE program and seek postsecondary education and/or employment in high wage, high skill, high demand careers.
5. Skills for Placement: CTE students are provided the opportunity to develop skills related to successful placement in employment and/or postsecondary education.

6S1: Nontraditional Participation

Activity Selections:

1. Career Awareness: Increase student awareness of nontraditional career options.
2. Outreach: Conduct targeted nontraditional CTE recruitment activities.
3. Support Services: Enroll students in nontraditional CTE training.

6S2: Nontraditional Completion

Activity Selections:

1. Institutional Strategies: Implement and model gender fair institutional strategies.
2. Support: Provide services to nontraditional CTE students to support program completion.
3. Role Models: Provide nontraditional role models/mentors.