CAREER TECHNICAL EDUGATION

CTE Elective Course Options
@ Tech Centers & Online 2023-2024









FOR ALL High School Students







MINNEAPOLIS PUBLIC SCHOOLS



CTE in MPS...

Use this course catalog to learn about the unique Career & Technical Education (CTE) courses available to all high school and alternative learning center students.

CTE courses provide an opportunity to connect what you are learning in your core classes (math, science, language arts, social studies) through career-connected, hands-on projects. Build your resume and develop real skills for the real world.

CTE courses allow you to explore a wide variety of careers and related professional skills as you:

- define your career aspirations,
- earn college credit,
- develop industry recognized skills,
- outline your plans beyond high school graduation, and
- prepare for what comes next!

Each CTE course you take at a CTE Tech Center or online will replace one or two class periods during your school day.

- Students who enroll in a block of courses at a Tech Center will be provided free transportation to and from their classes. A blocked course taken at a Tech Center equals 1.0 high school credit.
- Students who enroll in asynchronous online CTE courses can take an online CTE course any hour of the day. Most online CTE courses equal .5 high school credit. Online courses are indicated by "AO" in their registration code.

2023-2024 CTE Tech Center Bell Schedule

A.M. Block Classes: 8:05-10:00 a.m. Travel back to high schools, 10:05-10:25 a.m.

Mid-day Classes: Between 10:05 a.m. - 1:00 p.m. Times vary at each Tech Center

Travel from High Schools to Tech Centers, 12:35-1:00 p.m.

P.M. Block Classes: 1:05-3:00 p.m.

Breakfast is available at the Tech Center, 7:35-8:00 a.m. All students eat lunch at their home high school.



Find the right courses for you...

Step 1: Review course offerings in this catalog

Available In-person or Online @ all High Scl	hools
Career Exploration	Page 4
PATHWAYS @ CTE Edison Tech Center & On	line
Business	Page 5
Law & Public Safety	Page 10
Agriculture	Page 11
PATHWAYS @ CTE North Tech Center & Onli	ine
Healthcare - Emergency Medical Responder	Page 6
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Healthcare - Patient Care	Page 6
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Construction & Welding	Page 17
Machine Technology @ South High in Sy2023-2024	Page 18

Step 2: Identify the courses that interest you

Step 3: Select your courses at ctecoursefinder.mpls.k12.mn.us

When you submit your course choices using the CTE Course Finder Tool your high school counselor will automatically be informed of your interest and help you complete the official registration process.

Additional information:

- All CTE courses count as elective credit toward high school graduation requirements. Some CTE courses also count toward your Art or Science graduation requirement.
- Many CTE courses are eligible for college credit. If a course is eligible for college credit it is indicated in the chart on each page.
- Course locations are identified in the chart on each page. Options include in-person at a CTE Tech Center, online or in a few instances at non-CTE Tech Center locations.
- Transportation to and from CTE Tech Centers will be provided at no cost to the student.
- Annual course offerings will be based on student interest and enrollment numbers.

Career Exploration

DISCOVER, PREPARE, ACHIEVE



Still making plans for what you want to do after high school? Connect what you are learning in high school to real world experiences and career options that align best with your interests and natural abilities. Develop employability skills needed to succeed in the workplace and explore careers and skills needed to enter the industry of your choice.

Available in-person or online @ your high school							
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit		
99201	Investigating Careers	No	.5	Elective	No		

Design your future and make plans for life after high school graduation! In this course you will create a personal portfolio aligned with your career aspirations—research current and future career trends; discuss on-the-job health/safety issues and employer-employee relations; identify personal, work, and lifestyle values; and create a professional resume. This course is a prerequisite for course 99205.

99203	Career Planning & Development	No	.5	Elective	No
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Explore your career interests! This project-based course builds on prior knowledge and life experiences to guide you through the process to set career and college readiness goals aligned with your personal career aspirations. Modeled after independent-study courses, you will work with your instructor to create a project plan that outlines the tasks and research you will do to further develop your skills and knowledge in a specific career field.

99204 IBCP Personal & Professional Skills	No	.5	Elective	No
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Are you an IBCP student? This is a required IBCP course and provides mentoring and class time to to organize and complete the Reflective (career research) Project and work on their Language Portfolio. Develop skills in organization, communication, collaboration, reflection, ethical decision making, cultural awareness, and information literacy in the workplace.

99205	Career Work Experience (11th and 12th grade only)	99201	.5	Elective	No
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Earn while you learn! Connect what you are learning in school through paid and unpaid work experiences out in the community. Build resume-worthy experiences and solidify your career interests. All work experiences will be monitored by an MPS work-based learning teacher and be aligned to Minnesota Department of Education requirements and prerequisites. You must be 16 years old to enroll in this course.

Interested in exploring career options or a school-year internship?



Business

PLAN. ORGANIZE. INVEST. PRODUCE.



Interested in running your own business or climbing the the corporate ladder? Learn to use your analytical, entrepreneurial, and leadership skills to write a successful business plan, market a new idea, dig into data, manage teams, and develop project management skills that will support any future career choice.

CTE Ediso	n Tech Center	Includes free transportation to and from the Tech Center.				
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit	
95311 93711	Entrepreneurship Principles of Marketing	No	1.0	Elective	Yes	

Entrepreneurship - 95311: Ever thought of running your own business? Learn how to research the potential success of your business idea, write a business plan, and keep accurate records. Topics include accounting, marketing, human resources, insurance, financial management, banking and evaluate the costs and benefits of an entrepreneurial venture.

Principles of Marketing - 93711: Learn how to successfully advertise and market products to a customer. Learn the basic concepts of marketing, product development, pricing strategies, channels of distribution, promotion, and buyer behavior. Increase your social awareness as you analyze and define a market need, conduct research and develop a market strategy that addresses product, price, place, and promotion.

91056 91646	Data Science 1 Data Science 2	No	1.0	Elective	Yes
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Data Science 1 - 91056: Learn how to capture data and use it to share powerful messages! In this course students will utilize Microsoft Excel to manage data associated with real-world issues, perfecting their skills to analyze, understand and represent facts through

Data Science 2 - 91646: Look for unseen patterns in existing data! In this advanced course continue your exploration of vast volumes of data using modern tools and techniques to find unseen patterns, derive meaningful information, and make business decisions.

93739	IB Business and Management SL	No	1.0	Elective (IB)	Yes
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Explore complex and dynamic global business practices! Use business management theories and case studies to explore business functions of human resource management, finance and accounts, marketing and operations management through the lens of culture, ethics, globalization, innovation and strategy. You do not need to be an IB student to take this course.

CTE Online		No transportation required - courses offered at your high school any period of the day.					
93301AO	Personal Finance		No	.5	Elective	Yes	

Learn how to manage your money. This course focuses on personal and family resource management. Learn how to create a realistic household budget, plan for unexpected financial events, evaluate financial and banking services, design an investment portfolio, and complete personal income tax forms. Great preparation for living on your own!

93506AO	Intro to Business	No	.5	Elective	Yes
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Take the first step in understanding what it takes to run a successful business. This class will explore business ownership, ethics, decision-making, and business from a local and global perspective through hands-on projects and business simulations.

> Interested in Business classes? Click here to let your counselor know!

Healthcare

RESEARCH. DIAGNOSE. PREVENT. HEAL.



Ever wondered how the human body works? Gain hands-on experience and practical knowledge that will prepare you to enter a variety of healthcare and medical careers from emergency responder, nursing assistant, doctor, or pharmacy technician.

CTE Roosevelt Tech Center		Includes free tr	Includes free transportation to and from the Tech Center				
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit		
98126 98616	Medical Terminology Healthcare Core	No	1.0	Elective	Yes		

Medical Terminology - 98126: Become fluent in the language of health professionals! This course focuses on the recognition and understanding of medical terms and human anatomy. You will learn correct pronunciation and spelling of medical terminology, learn to interpret and use common medical abbreviations used in medical forms and records, as well as the ability to write, read and translate medical cases.

Healthcare Core - 98616: Interested in exploring healthcare careers? Through this entry-level course you will learn about the basic skills needed for working in any healthcare profession. Topics include: awareness and sensitivity to client/patient needs, behaviors for success in healthcare settings, required communications skills, ethics, legal issues, respecting client and staff diversity, and healthcare safety standards.

98636	Anatomy & Physiology	No	1.0	Elective	Yes
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Explore the human body on a cellular and systems level! This course provides a critical foundation for any health care career. Learn to identify structures within the body and the processes and functions related to these structures. Body systems covered include skeletal, respiratory, circulatory, lymphatic, nervous, integumentary, and gastrointestinal.

CTE North T	ech Center	Includes free transportation to and from the Tech Ce			ech Center.
98126 98146	Medical Terminology Emergency Medical Responder	No	1.0	Elective	Yes

Medical Terminology - 98126: Become fluent in the language of health professionals! This course focuses on the recognition and understanding of medical terms and human anatomy. You will learn correct pronunciation and spelling of medical terminology, learn to interpret and use common medical abbreviations used in medical forms and records, as well as the ability to write, read and translate medical cases.

Emergency Medical Responder - 98146: Learn how to save lives! Develop emergency medical skills and knowledge to assist people who have been injured or are suffering from a sudden illness or medical problem. This course is the first step to earn your American Red Cross Emergency Medical Responder certificate.



Interested in taking Healthcare classes?



Healthcare

RESEARCH. DIAGNOSE. PREVENT. HEAL.



CTE Online	No transportation require	d - courses offered	l at your high so	chool any period	of the day.
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
98126AO	Medical Terminology	No	.5	Elective	Yes

Become fluent in the language of health professionals! This course focuses on the recognition and understanding of medical terms and human anatomy. You will learn correct pronunciation and spelling of medical terminology, learn to interpret and use common medical abbreviations used in medical forms and records, as well as the ability to write, read and translate medical cases.

98616AO	Healthcare Core	No	.5	Elective	Yes
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Interested in exploring healthcare careers? Through this entry-level course you will learn about the basic skills needed for working in any healthcare profession. Topics include: awareness and sensitivity to client/patient needs, behaviors for success in healthcare settings, required communications skills, ethics, legal issues, respecting client and staff diversity, healthcare safety standards and procedures.





Engineering DESIGN. BUILD. INNOVATE.



Interested in how things are designed and manufactured? Your future in engineering and technology begins here! Get an "insider's view" of how engineers apply mathematical skills and scientific knowledge to solve real-world problems. Take a course or two at the Tech Center and explore the fields of mechanical, electrical, industrial or civil engineering.

CTE North	Includes free	transportatic	on to and from the	e Tech Center.	
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
95406	Introduction to Engineering Design	No	1.0	Art	Yes

Do you like solving problems? In this course explore modern prototyping tools including 3D printers and scanners, laser engravers, and a variety of other lab tools to through individual and small group projects. Special attention is placed on 3D computer modeling to design, produce, and evaluate innovative products.

95416 Pri	inciples of Engineering	No	1.0	Art & Physics	Yes
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Discover mechanical engineering! Through hands-on projects advance your skills and understanding of engineering and engineering technology, with particular focus on systems and manufacturing processes that keep pace with today's ever-changing technology. Students will take on the role of engineers and technicians as they apply their math, science, and technology skills to solve problems. Discussions cover the potential social and political benefits and consequences of technological change.

95426	Digital Electronics	No	1.0	Elective	Yes
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Smart circuits are present in virtually all aspects of our lives (i.e., computers, medical devices, and digital electronics)! Study and develop circuit design skills; application of electronic logic circuits and devices and use of Boolean logic while you advance your understanding of basic circuits and electricity concepts through teamwork, communication methods, engineering standards and technical documentation.

95506 Civil Engineering & Architecture	No	1.0	Art	Yes
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Ever wondered about what it took to design and build the city you live in? In this course you will take on the role of architect and civil engineer as you learn about residential and commercial buildings, site design and development, and standard engineering practices; develop skills in engineering calculations, technical representation, design documentation, and 3D architectural design.

95906	Engineering Design & Development	varies	1.0	Art	Yes
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Apply your engineering know-how and entrepreneurial skills in this capstone course. Design a patentable engineering product - initial concept through prototype and present your prototype to industry and manufacturing professionals.

Interested in Engineering classes?



Robotics & Drone Technology

DESIGN. BUILD. CODE. FLY.



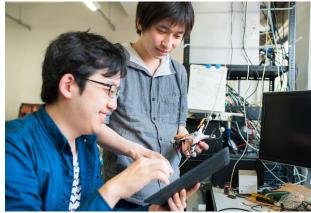
Solve industrial design challenges using robotics & drone technology! Learn the basics of mechanical design, programming logic, coding and what it takes to become a certified commercial drone operator.

CTE North	Tech Center	Includes free tro	ansportation	to and from the	Tech Center.
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
91639	Robotics				
91640	Drone Technology	No	1.0	Elective	No

Robotics - 91639: Explore how robots solve real world problems. Learn about basic electronic control, mechanics, and elements of advanced programming logic. Develop problem solving, teamwork, and project management skills.

Drone Technology - 91640: Become a certified commercial drone operator! Immerse yourself in key Federal Aviation Administration (FAA) knowledge areas - aviation weather, crew resource management, airport operations. Student will also learn coding, photo/videography techniques, and customer relations in the context of commercial drone operations.









Interested in taking a Robotics class?



Law & Public Safety

RESPOND. INVESTIGATE. PROTECT. SERVE.



Explore all aspects of law, public safety, and first responder career pathways. From police officers and firefighters to city council members, and criminal investigators the law and public safety industry offers a wide range of career opportunities.

CTE Edisc	on Tech Center	Includes free transportation to and from the Tech Center			
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
91101 91201	Intro to Law & Civil Service Police & Community Relations	No	1.0	Elective	Yes

Intro to Law & Civil Service - 91101: Get a behind the scenes look at the life of first responders in our community! In this course you will earn your Red Cross First Aid/CPR Certification and learn valuable life-saving skills and responsibilities needed when you arrive on the scene of an emergency. Discussions and activities will cover the principles behind community policing, how the justice system works, and a comprehensive review and understanding of how police, courts, and correctional departments are designed to work together to support individual stakeholders and communities.

Police & Community Relations - 91201: Serve and protect your community! In this course you will explore special concerns and historic interactions of law enforcement with racially and culturally diverse populations. Course discussions and activities will focus on contemporary law enforcement issues including crime prevention, police and community relations, ethical decision-making, cultural diversity, police professionalism, domestic abuse, bias-motivated crimes, and interpersonal communications.

CTE Online No transportation required - courses offered at your high school any period				chool any period o	of the day.
91101AO	Intro to Law & Civil Service	No	.5	Elective	Yes

Get a behind the scenes look at the life of first responders in our community! In this course you will earn your Red Cross First Aid/CPR Certification and learn valuable life-saving skills and responsibilities needed when you arrive on the scene of an emergency. Discussions and activities will cover the principles behind community policing, how the justice system works, and a comprehensive review and understanding of how police, courts, and correctional departments are designed to work together to support individual stakeholders and communities.

91201AO	Police & Community Relations	91101	.5	Elective	Yes
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Serve and protect your community! In this course you will explore special concerns and historic interactions of law enforcement with racially and culturally diverse populations. Course discussions and activities will focus on contemporary law enforcement issues including crime prevention, police and community relations, ethical decision-making, cultural diversity, police professionalism, domestic abuse, bias-motivated crimes, and interpersonal communications.

Interested in a career in Law & Public Safety?



Urban Agriculture

PLANT, GROW, HARVEST



Explore the vibrant natural world, right here in the city. Learn how plants and soil are integral to human health and life. Solve problems of food access in your community. Discover all of this and more in Urban Agriculture classes.

CTE Ediso	n Tech Center	Includes free transportation to and from the Tech Cente				
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit	
90101 90201	Urban Agriculture Plant Science & Horticulture	No	1.0	Elective	Yes	

CTE Online		No transportation required - courses offered at your high school any period of the day.					
90101AO	Urban Agriculture		No	.5	Elective	Yes	

Explore emerging technologies and learn how urban agriculture, food science, and natural resources are revolutionizing how we design and manage local community-based food production. Plus, build a personal portfolio and resume showcasing your knowledge and employability skills in preparation for a local internship.

90201AO	Plant Science & Horticulture	90101	.5	Elective	Yes
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Develop skills to grow plants in a variety of settings, landscape design, and maintenance. Learn how urban agriculture and landscaping are driven by plant science, the environment, and resources of our local community.







Interested learning how to grow food in the big city?



Computer Science

DESIGN. DEVELOP. TROUBLESHOOT.



Interested in learning about the latest trends in computer science and information technology? Explore the world of cybersecurity and computer programming - learn to use your coding skills to improve user experience, create apps, design web pages, organize information, expose website vulnerabilities, and create security barriers.

CTE North Tech Center Includes free transportation to and from the Tech				ch Center.
Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
amputor Science Principles	No	10	Elective	Yes
		Course Name Prerequisite	Course Name Prerequisite Credits	Course Name Prerequisite Credits Meets Grad Requirement

Computer Science Principles

Expand your computer programing skills! In this course you will develop strong foundational skills used in game and app design, cybersecurity, and robotics. Skills include problem solving, logic programming, project management and the importance of computing ethics.

95626	Computer Science A	No	1.0	Elective	Yes
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Computer Science A PLTW

Become an expert in JAVA and AndroidTM app development! Get familiar with computer science concepts and tools as you learn a subset of the Java programming language. Through small group and individual projects you will design, write, and test computer programs that solve problems or accomplish tasks.

95637 95638	Cybersecurity 1 Cybersecurity 2	No	1.0	Elective	Yes	
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Cybersecurity 1 - 95637: Learn about the world of cybersecurity! In this course you will take the first step to becoming a Certified Cybersecurity Technician and learn fundamental principles associated with current-day cybersecurity issues and how to recognize and reduce and prevent attacks against enterprise networks and mission-critical infrastructure. You will also learn how to set up and configure interfaces, security zones, authentication, and policies on a Next-Generations firewall; and concepts involved in maintaining a secure network computing environment.

Cybersecurity 2 - 95638: Become a Palo Alto Networks Certified Cybersecurity Technician! In this course you will continue to build your knowledge of cybersecurity and learn how to collect high-fidelity intelligence, contextual data, and design automated prevention workflows that quickly identify and respond to fast-evolving threats. Students who successfully complete this course can become a Palo Alto Networks Certified Cybersecurity Technician.

Interested in a career in Cybersecurity or Computer Programming?



Computer Science

DESIGN. DEVELOP. TROUBLESHOOT.



CTE Online	No transportation required - courses offered at your high school any period of the day.						
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit		
91009AO	IT Exploration	No	.5	Elective	Yes		

Explore careers in computer science and information technology through simulations and independent projects. In this course you will develop skills related to digital media, computer hardware, operating systems, communication networks, software development, databases, and emerging technologies.

95607AO	Computer Science Essentials	No	1.0 year long	Elective	Yes
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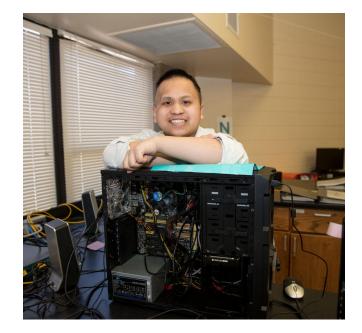
Explore how innovations in computing impact and connect our world. In this introductory programming course you will create mobile apps, program self-driving cars, and create text-based applications using Applnventor, Vex Coding System, Python and Cloud9. This is a year-long asynchronous online elective course.

95637AO	Cybersecurity 1	No	.5	Elective	Yes
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Learn about the world of cybersecurity! In this course you will take the first step to becoming a Certified Cybersecurity Technician and learn fundamental principles associated with current-day cybersecurity issues and how to recognize and reduce and prevent attacks against enterprise networks and mission-critical infrastructure. You will also learn how to set up and configure interfaces, security zones, authentication, and policies on a Next-Generations firewall; and concepts involved in maintaining a secure network computing environment.

95638AO	Cybersecurity 2	95637	.5	Elective	Yes
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Become a Palo Alto Networks Certified Cybersecurity Technician! In this course you will continue to build your knowledge of cybersecurity and learn how to collect high-fidelity intelligence, contextual data, and design automated prevention workflows that quickly identify and respond to fast-evolving threats. Students who successfully complete this course can become a Palo Alto Networks Certified Cybersecurity Technician.







Media Arts

DESIGN. CREATE. COMMUNICATE.



Interested in using your creativity to design websites, create social media posts, or inform and entertain an audience? Check out these media arts courses and increase your skills to communicate and design in the digital world; create audio and video productions that may stream or get air time on KBEM-Jazz88, the school district's FM radio station.

CTE North	CTE North Tech Center Includes free transportation to and from the Tech Cen				
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
92509 92519	Creative Media 1 Creative Media 2	No	1.0	Art	Yes

Creative Media 1 - 92509: Expand your social media skills! Develop announcing skills at a real ON-AIR radio station. Take on the role of a DJ, podcaster, interviewer, and sports play by play announcer in real world settings - classroom, community, corporate setting, and independently on social media. Develop digital audio editing, commercial copywriting and electronic news gathering skills by covering news events for simulated live broadcasts.

Creative Media 2 - 92519: Become an influencer! Students Learn advanced skills as you produce your own podcasts, DJ, and create a unique on-air radio personality. Learn through hands-on experiences (simulated and live) applied to the Twin Cities radio and podcast industry. Work independently, in small groups and as part of a production team with your teacher, radio station employees as you solve the daily challenges involved in running your own broadcast and a radio station.

92606 92616	Digital Photography 1 Advanced Photo & Editing	No	1.0	Art	Yes
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Digital Photography - 92606: Like to take pictures and focus in on the details of life? Explore how to take great pictures that tell a story. Explore camera features, principles of studio and natural lighting, image composition, on-location and studio shooting, in-camera image manipulation, and how to catalog and manage your images aligned to industry standards.

Advanced Photography & Editing - 92616: Expand your digital photography skills to include image editing and creative composition. Learn how to manipulate and prepare images for commercial print and digital use; including an introduction to video production, story concept, visual styles, lighting design, and 3D animation.

92709 92719	Digital Video 1 Digital Video 2	No	1.0	Art	Yes
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Digital Video 1 - 92709: Interested in expressing yourself through film and video? Learn all phases of video production, including preand post-production, while you create digital video; feature length films, shorts, YouTube, animation and stop-motion videos. Plan, record, and edit videos using digital cameras and professional software.

Digital Video 2 - 92719: Expand your video production skills and develop advanced technical knowledge of camera operation, audio recording, lighting systems, visual effects, graphics, and copyright laws. Experience firsthand how to write copy, storyboard, create characters, add visual effects.

Interested in expressing yourself through digital design?



Media Arts

DESIGN. CREATE. COMMUNICATE.



CTE Onlin	No transportation required -	courses offered c	ıt your high so	chool any period o	of the day.
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
92406AO	Adobe Photoshop	No	.5	Art	Yes

Interested in commercial photography or graphic design? Build a portfolio of digital designs aligned with industry standards and express your creativity while you learn the common features and uses of Adobe Photoshop. Create original artwork, manipulate color images, retouch photographs and explore how you can apply these skills in a variety of media arts career opportunities.

92416AO	Adobe Illustrator	No	.5	Art	Yes
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Explore the world of graphic design and learn the principal vector drawing software used in logos, branding, and multimedia. Use Adobe Illustrator to create your own artwork, learn color theory, drawing and composition, typography and quality file management skills.

92509AO	Creative Media 1	No	.5	Art	Yes
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Expand your social media skills! Develop announcing skills at a real ON-AIR radio station. Take on the role of a DJ, podcaster, interviewer, and sports play by play announcer in real world settings - classroom, community, corporate setting, and independently on social media. Develop digital audio editing, commercial copywriting and electronic news gathering skills by covering news events for simulated live broadcasts.

92519AO	Creative Media 2	92509	.5	Art	Yes
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Become an influencer! Students Learn advanced skills as you produce your own podcasts, DJ, and create a unique on-air radio personality. Learn through hands-on experiences (simulated and live) applied to the Twin Cities radio and podcast industry. Work independently, in small groups and as part of a production team with your teacher, radio station employees as you solve the daily challenges involved in running your own broadcast and a radio station.

92916AO	Yearbook Publishing	No	.5	Art	No
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Explore the world of contemporary graphic design and desktop publishing. Support the creation of your high school's yearbook as you develop skills related to print layout, electronic imaging, typography, conventional and digital photography, production management, and journalism.







Automotive

DIAGNOSE. TROUBLESHOOT. REPAIR.



Interested in gaining knowledge and hands-on auto shop experience? Learn how to service and repair multiple types of automobiles and powersports equipment and determine if a career in this industry is a good fit for you.

CTE Roosevelt Tech Center Includes free transportation to and from the		and from the Te	ch Center.		
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
97101 97111	Basic Auto Advanced Auto	No	1.0	Elective	Yes

Basic Auto - 97101: Learn basic car maintenance skills. Through hands-on activities and labs, master correct procedures for servicing vehicles, shop safety, how to use service manuals and automotive tools, operation of shop equipment, and routine service repairs such as tire inspection, fluid conditions, fluid levels, changing and repairing tires, and maintaining automotive maintenance logs.

Advanced Auto - 97111: Advanced car maintenance. This course builds on knowledge gained in Basic Auto 1. Hands-on activities and labs will focus on advanced understanding of engine performance, brakes, auto electrical systems, steering, suspension, and alignment. Students complete the course by identifying and performing basic services on a vehicle.

96701 Small Engines 96702 Powersports & Equipment	No	1.0	Elective	Yes
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Small Engines - 96701: Discover how engines work. Learn about mechanical components, performance and repair of 2- and 4-stroke engines through hands-on activities and classroom assignments. Learn about principles of engine operation and construction, carburetion, and the disassembly and reassembly of small gasoline engines.

Powersports & Equipment - 96702: Apply your knowledge of small engines to the powersports industry. Learn to troubleshoot and repair minibikes to utility terrain vehicles (UTV)s and everything in between. This course will focus on engine, drivetrain, electrical, brake, and hydraulic systems along with general maintenance.

97404	ASE Collision Repair 1	No	1.0	Art	Yes
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Take the first step to become ASE certified in Automotive Collision and Repair. In this course you will develop a variety of auto body repair skills including: panel repair and replacement, removal, replacement, and adjustment of interior and exterior panels, metal finishing and body fill, metal welding and cutting, plastic and adhesive-related repair procedures.

97414	ASE Collision Repair 2	97404	1.0	Art	Yes
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Advanced collision car repair. This course builds on knowledge gained in ASE Collision Repair 1. Hands-on activities and labs will focus on advanced understanding of surface preparation, use of paint spray gun and related equipment, how to assess paint defects, how to mix, match and apply paint. Personal and environmental safety practices will be emphasized.

Interested in an unpaid automotive, apprenticeship-like experience? The auto program takes on a few unpaid interns each year to work on independent projects, train students, and learn how to manage a variety of tasks associated with working in an auto shop. Talk to your teacher if you are interested in this opportunity.

Interested in wrenching on cars and engines?





Construction & Welding

DESIGN. BUILD. CREATE.



Experience all aspects of the construction and welding industry as you develop skills in carpentry, metals, electricity, welding, and pipefitting. Hands-on projects will prepare you for future home ownership or a career in the construction industry.

CTE Roosevelt Tech Center		Includes free transportation to and from the Tech Center			
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit
96212	Construction Trades 1				
96222	Construction Trades 2	No	1.0	Elective	Yes

Construction Trades 1 - 96212: Interested in a career in construction or learning valuable home maintenance skills? In this course you will develop basic carpentry, metals, electricity, and pipefitting skills along with safe usage of hand and power tools applicable to each skill set.

Construction Trades 2 - 96222: Continue the development of your construction and skills through individual and group projects in carpentry, electrical wiring, plumbing, wall framing, door and window installation, cement masonry and more.

96526 96536	Welding 1 Welding 2	No	1.0	Art	Yes
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Welding 1 - 96526: Interested in becoming a welder? Learn how to use the art of welding in artistic and industrial settings. Develop basic skills related to safety, equipment set up, metal transfer, gas shielding and welding various types of metals. This class focuses on oxyacetylene and gas tungsten arc welding.

Welding 2 - 96536: This course builds on the skills developed in Welding 1 and focuses on careers and skills needed in the construction industry. Develop skills in shielded metal arc welding and gas metal arc welding through simulators and hands-on projects, plus tour construction job sites and trade union apprenticeship training facilities.



Completed level 1 and 2 and want to continue building your technical skills in an unpaid apprenticeship-like experience? The construction and welding program takes on a few unpaid interns each year to work on independent projects, train students, and learn how to manage a variety of tasks associated with running a construction or welding lab. Talk to your teacher if you are interested in this opportunity.







Interested in building houses or learning how to weld?



Machine Technology

PLAN. MEASURE. CREATE



Interested in learning about careers in manufacturing and operating machine tools? Today's manufacturing is about advanced technologies, state of the art facilities, and fast-paced work environments. Enroll today and learn skills for the in-demand manufacturing careers: CNC machine tool programmers, computer-controlled machine tool operators, and mechatronic technicians.

CTE South High School No transportation provided in 2023-2024 school year.						
Registration Code	Course Name	Prerequisite	Credits	Meets Grad Requirement	College Credit	
96301	Machine Technology 1	No	.5	Art	Yes	

Increase your knowledge and skills in the use of common hand tools, engine lathes, shapers, drill pressed, milling machines, and grinders. In this class students will have hands-on experiences in elementary mechanical fundamentals and principles used in precision manufacturing industries.

96302	Machine Technology 2	96301	.5	Elective	Yes
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This course builds upon skills developed in the Machine Technology 1 course with increased emphasis on precise workmanship. Students are expected to participate more actively in the planning stages of the work and to take a more significant role in shop organization and management.

Completed level 1 and 2 and want to continue building your technical skills in an unpaid apprenticeship-like experience? The machine technology program takes on a few unpaid interns each year to work on independent projects, train students, and learn how to manage a variety of tasks associated with running a construction or welding lab. Talk to your teacher if you are interested in this opportunity.





Interested in a future career in trades and manufacturing?





For more information about CTE in Minneapolis Public Schools, check out our website.

cte.mpls.k12.mn.us

Learn about CTE courses and career pathways that best match your personality, interests and strengths.



