2026 | 2027

CAREER & TECHNICAL EDUCATION

COURSE CATALOG

MINNEAPOLIS PUBLIC SCHOOLS

FREQUENTLY ASKED QUESTIONS

Why choose CTE courses?

Career & Technical Education (CTE) helps students connect classroom learning with real-world skills. CTE courses:

- **Open doors to future** careers by introducing students to high-demand jobs.
- **Build practical skills** that prepare students for college, training programs, and the workforce.
- **Engage student interests** through hands-on projects and applied learning.
- **Strengthen confidence** by showing students how their education connects to life beyond high school.

When can I enroll in CTE courses?

Minneapolis Public Schools offers CTE courses in person at our Tech Centers and online so students can choose the option that works best for them. For the 2026–2027 school year, CTE courses will be available in three formats:

Morning Classes (In Person at Edison, North, and Roosevelt)

- 1-hour, semester-long classes offered during the regular morning schedule at Edison, North, and Roosevelt.
- Available only to students enrolled at these three high schools.
- Taught by licensed CTE instructors and aligned to each school's bell schedule.

Online Classes (All High Schools)

- Open to 10th, 11th, and 12th graders from any MPS high school.
- Asynchronous format designed for independent, self-motivated learners.
- Can be scheduled during any hour of the school day.

Afternoon Classes (In Person at Tech Centers)

- Open to all 10th, 11th, and 12th grade MPS high school students.
- 10th grade students may enroll in afternoon classes beginning in the second semester of their sophomore year.
- 2-period block classes from 1:00–2:40 p.m., Monday–Friday.
- Free transportation provided to and from the Tech Centers.

How do I add CTE Courses to my high school Academic Planner in Infinite Campus ?

- Log into your Infinite Campus Portal and choose the Academic Planner tool.
- Scroll down to the Elective section at the bottom of the Academic Planner screen.
- You'll see a list of available CTE course options. You can also use the search bar if you know the name of the courses you are looking for.
- Choose the courses that best match your interests and future goals.
- Add CTE courses to your 10th, 11th, and/or 12th grade Academic Plan.

If you have questions about course registration, talk to your high school counselor.

Start your journey here.

CAREER & TECHNICAL EDUCATION

Step 1.

Review course offerings in this catalog.

Step 2.

Identify the courses that interest you.

Step 3.

Use the Academic Planner in Infinite Campus to select courses or meet with your school counselor.

Table of Contents

Frequently Asked Questions	2
Articulated College Credit	4
Career Exploration & Internships	5
Healthcare & Caring Professions	6
Business & Urban Agriculture	8
Automotive	10
Engineering & Technology	11
Manufacturing & Construction	14
Tech Center Locations	16

Scan the QR code – to learn about CTE courses and career pathways that best match your personality, interests and strengths.

When you use the CTE Course Finder Tool to identify CTE courses of interest, you will automatically receive an email with a copy of your course requests to share with your school counselor and complete the registration process.

ctecoursefinder.mpls.k12.mn.us

Can I earn college credit or certifications?

Yes. Over 90% of the CTE courses listed in this catalog are eligible for students to earn articulated college credits with 10+ Minnesota two- and four-year institutions, with the majority of our college credits aligned with programs at:

- Hennepin Technical College
- Minneapolis College
- Normandale Community College

Other institutions include: Alexandria Tech, Anoka-Ramsey Community College, Anoka Technical College, Central Lakes, Century College, Minnesota West Community & Technical College, Ridgewater College, Rochester Community & Technical College, St. Cloud State University, South Central College

Which colleges or programs accept CTE college credit?

- Articulated College Credit (ACC) is not transcripted at the college until you have enrolled and taken a course at that college.
- Bring your printed ACC record when registering at a college listed on your ACC Record to receive the credit(s) earned. ACC requires that you enroll and complete a college course at that college in order for the ACC to be added to your college transcript. Other colleges MAY honor the credits.
- You must always check with the college or university of your choice for specific criteria in a program or major — not all credits will be accepted into all programs or majors.

Minnesota State Colleges and Universities with CTE Articulated College Credit Agreements*

To earn articulated college credit, students must pass most courses with 80%+ grade and pass the end of course exam.

CTE Programs	Minnesota State Colleges & Universities							Additional Minnesota State Colleges & Universities
	Anoka Technical College	Anoka-Ramsey Community College	Hennepin Technical College	Minneapolis College	Normandale Community College	St. Cloud State University	
Automotive	X		X					MN West Community & Technical Collge Ridgewater College Rochester Community & Technical College South Central College
Business & Urban Agriculture		X	X	X	X			Ridgewater College Rochester Community & Technical College American Council on Education
Construction	X		X	X				Rochester Community & Technical College South Central College
Engineering & Technology	X	X	X	X	X	X		Century College MN West Community & Technical Collge Ridgewater College Rochester Community & Technical College Saint Paul College South Central College
Healthcare & Caring Professions	X	X	X	X	X			Alexandria Technical & Community College Central Lakes College MN West Community & Technical Collge Rochester Community & Technical College South Central College

*Agreements are updated each year between September–December. Some CTE courses also quality for concurrent enrollment.
Many other institutions will honor articulated college credit when students work with the institutions registrar's office and present course standards availalbe on CTECreditMN.com.

More information about articulated college credit can be found at ctecreditmn.com.

Still making plans for what you want to do after high school?

Start here! Connect what you are learning in high school to career options that align best with your interests and natural abilities. Develop employability skills needed to succeed in the workplace to enter the industry of your choice.

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
99201	Investigating Careers	.5	Elective	No

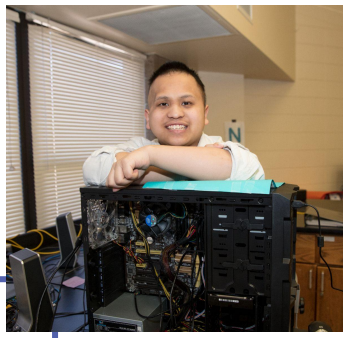
Design your future and make plans for life after high school graduation! In this course you will create a personal portfolio aligned with your career aspirations—research current and future career trends; discuss on-the-job health/safety issues and employer-employee relations; identify personal, work,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

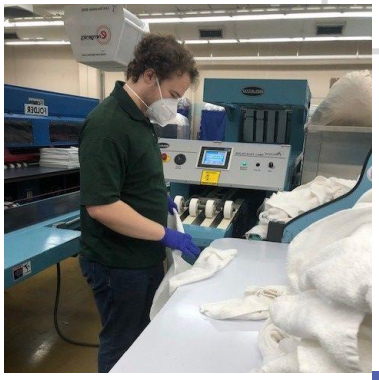
99203	Career Planning & Development	.5	Elective	No

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 and community partners to create a project plan that outlines the activities, tasks and research you will do to further develop your skills and knowledge in a specific career field.

99205	Career Work Experience (11th and 12th grade only)	.5	Elective	No

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.

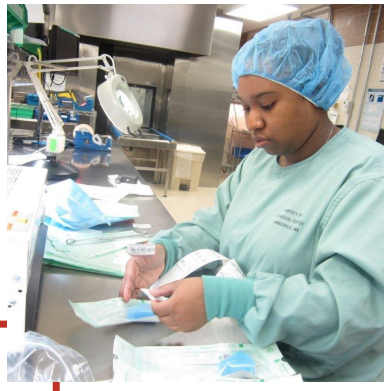






Healthcare is one of the fastest-growing career fields!

From nursing assistant to dental hygienist, physical therapist to surgical technician or emergency medical responder, the healthcare industry offers a wide range of career opportunities in the Twin Cities and across the country.



In-Demand Healthcare Occupations

Minnesota Salary Range: $32,765 - 102,391

Certification
- Nursing, Medical or Dental Assistant
- Emergency Medical Technician
- Pharmacy Tech

Associate Degree
- Licensed Nurse
- Radiologic Technician
- Dental Hygienist
- Registered Nurse

Bachelor's Degree
- Occupational Health & Safety Specialist

Professional Degree
- Nurse Practitioner
- Physical Therapist
- Physician Assistant
- Doctor

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
98126 98616	Medical Terminology Healthcare Core	1.0	Elective	Yes

Medical Terminology - 98126 (Also available online)
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 (Also available online)
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	1.0	Elective	Yes

Explore the human body on a cellular and systems level! This course provides a critical foundation for any healthcare 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.

98145 98146	Emergency Services 1 Emergency Services 2	1.0	Elective	Yes

Emergency Services 1 - 98145
Public Safety is critical to a healthy community. This course introduces students to the field of public safety and will extend their knowledge and skills pertaining to the safety and security of homes, workplaces, and the community.

Emergency Services 2 - 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.

Serve, protect, and lead in your community.

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



In-Demand Public Safety & Service Occupations

Minnesota Salary Range: $34,370 - 129,043

High School Diploma or Certification
- Court, Municipal, and License Clerk
- Firefighter
- Paramedic

Associate Degree
- Paralegal and Legal Assistant
- Police and Sheriff's Deputy

Bachelor's Degree
- Probation Officer
- Correctional Treatment Specialist
- Urban Planner
- Detective & Criminal Investigator

Professional Degree
- Chief of Police
- Lawyer

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
91101 91201	Intro to Criminal Justice Law Enforcement & the Community	1.0	Elective	Yes

Intro to Criminal Justice - 91101 (Also available online)
Get a behind the scenes look of the American criminal justice system, with specific review of the roles and responsibilities of the police, courts, corrections institutions and the democratic foundations upon which the system is based. In addition, learn more about career options in the areas of criminal justice. *This course is a prerequisite for course 91201.*

Law Enforcement and the Community - 91201 (Also available online)
Do you have questions about how peace officers interact with the community members they serve? Discussions and activities in this course will cover police ethics, leadership, and officer influence within the individual decision making processes. Other topics include diversity, problem-solving, critical thinking, communication, and community service.

Explore all aspects of urban education.

Work with MPS teachers and students. Design lesson plans and engage with kids. Be an influencer and have a powerful impact on our community.

In-Demand Education Occupations

Minnesota Salary Range: $37,938 - 105,351*

Associate Degree
- Community Health Worker
- Child Care Specialist

Bachelor's Degree
- PreK-12 School Teacher
- Mental Health or School Counselor

Professional Degree
- Social Worker
- Healthcare Administrator

90241 90251	Introduction to Urban Education Technology for Educators	1.0	Elective	Yes

Introduction to Urban Education - 90241 (Also available online)
Learn about the history of American schooling and educational philosophies historical survey of schooling and educational philosophies. Discuss current issues facing students, families, teachers, schools, districts and communities. In addition to class time, students will be required to actively participate in 30 hours of K-12 schools/community service learning. *This course is a prerequisite for course 90251.*

Technology for Educators - 90251
As a future educator, develop technology skills to support student learning. Explore many different tools for planning, instruction, communication and record keeping. Engage in discussions on the "digital divide" as well as ethical and legal issues around technology and information sharing.



Interested in running your own business or climbing the corporate ladder?

Develop 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.



In-Demand Business Occupations

Minnesota Salary Range: $65,361 - 156,890

Bachelor's Degree

- Human Resources Specialist
- Project Management Specialist
- Training and Development Specialist
- Financial and Investment Analyst
- Accountant and Auditor
- Personal Finance Advisor
- General and Operations Manager
- Marketing Manager

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
93511 93711	Entrepreneurship Principles of Marketing	1.0	Elective	Yes

Entrepreneurship - 93511
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. *This course is a prerequisite for course 93711.*

Principles of Marketing - 93711
Learn how to successfully advertise and market products to a customer. Learn 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.

93301AO	Personal Finance	.5	Personal Finance	No

Personal Finance - 93301AO (Online Only, except at EHS)
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! *This course meets the MPS Personal Finance graduation requirement.*

93506AO	Introduction to Business	.5	Elective	Yes

Introduction to Business - 93506AO (Online Only, except at EHS)
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.



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.



In-Demand Urban Agriculture Occupations

Minnesota Salary Range: $46,521 - 99,020

Associate Degree

Agricultural and Food Science Technician
Environmental Science and Protection Technician
Forest and Conservation Technician
Environmental Engineering Technician

Bachelor's Degree

Conservation Scientist
Soil Scientist
Environmental Scientist
Food Scientist and Technologist
Environmental Engineer

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
90101 90201	Urban Agriculture Plant Science & Horticulture	1.0	Elective	Yes

Urban Agriculture - 90101 (Also available online)
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.

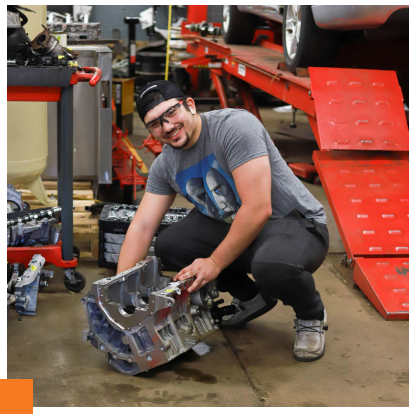
Plant Science & Horticulture - 90201 (Also available online)
Develop skills to grow plants in a variety of settings, landscape design, and maintenance. Learn how urban agriculture and landscaping are driven by plant science, the environment, and resources of our local community.





Interested in hands-on auto shop experience?

Learn how to service and repair automobiles and powersports equipment to determine if a career in this industry is a good fit for you.



In-Demand Automotive Occupations

Minnesota Salary Range: $49,142 - 105,607

High School Diploma

Automotive Body Technician
Cargo and Freight Agent
Bus and Truck Mechanic

Associate Degree

Automotive Service Technician
Farm Equipment Mechanic
Mobile Heavy Equipment Mechanic
Aircraft Mechanic

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
97101 97111	Basic Auto Advanced Auto	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. *This course is a prerequisite for course 97111.*

Advanced Auto - 97111

Advanced car maintenance. This course builds on knowledge gained in Basic Auto. 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 96702	Small Engines Powersports & Equipment	1.0	Elective	Yes

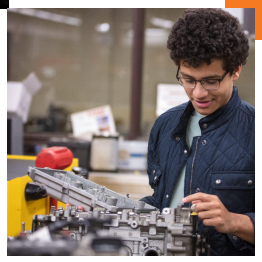
Small Engines - 96701

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.
This course is a prerequisite for course 96702.

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.







Interested in how things are designed and manufactured?



Solve industrial design challenges using robotics, 3D design and industry-grade software. Get an insider's view of how engineers apply mathematical skills and scientific knowledge to solve real-world problems.

In-Demand Engineering Occupations

Minnesota Salary Range: $48,267 - 125,044

Certifications
Commercial Drone Operator
CNC Programmer

Associate Degree
Clinical Laboratory Technician
Drone Imaging Specialist
Calibration & Engineering Tech

Bachelor's Degree
Mechanical Engineer
Electrical Engineer
Industrial Engineer

Course Numbers	Course Name	Credits	Meets Grad Requirement	Articulated College Credit
95406	3D Design	1.0	Elective	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	Physics of Engineering	1.0	Elective	Yes

Discover mechanical engineering! Through hands-on projects advance your skills and understanding of engineering, with particular focus on systems and manufacturing processes that keep pace with today's ever-changing technology. Students 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	1.0	Elective	Yes

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	Architectural Design	1.0	Elective	Yes

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 Capstone	1.0	Elective	Yes

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.

91639 91640	Robotics Drone Technology	1.0	Elective	Yes

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.

Explore the world of cybersecurity and computer programming!



Use your logic and coding skills to improve user experience, create apps, develop games, expose website vulnerabilities, and create security barriers.

In-Demand Information Technology Occupations

Minnesota Salary Range: $59,611 - 156,396

Certification
Cybersecurity Network Technician

Associate Degree
Computer Network Support Specialist

Bachelor's Degree
Software Developer
Information Systems Manager

Course Numbers	Course Name	Credits	Graduation Requirement	Articulated College Credit
91009AO	IT Exploration	.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. (Online Only, except at EHS)

95607AO	Computer Programming & App Design	1.0 year long	Elective	Yes

Explore how innovations in computing impact and connect our world. In this introductory programming course you will create apps and learn essential concepts and data structures that form the foundation of our digital world. This course is appropriate for any student proficient with algebra. (Online Only)

95616	Computer Programming & Game Design 1	1.0	Elective	Yes

Expand your computer programming skills through the creation of games and applications! Develop strong foundational skills used in game and app design through the creation of multiple game projects culminating in a personal game or application using real-world tools and skills. Interested students having completed the course will be prepared for the College Board Computer Science Principles AP exam.

95626	Computer Programming & Game Design 2	1.0	Elective	Yes

Become an expert in Object-Oriented Programming (OOP) through advanced game and app development! Through small group and individual projects you will design, write, and test computer games and applications that solve problems, educate, entertain, or accomplish tasks. Upon completion, interested students will be prepared for the College Board Computer Science A AP exam.

95637 95638	Cybersecurity 1 Cybersecurity 2	1.0	Elective	Yes

Cybersecurity 1 - 95637 (Also available online)
Learn about the world of cybersecurity! Investigate strategies to identify and protect against security threats such as hackers, eavesdropping and network attacks. Explore the basics of cryptography and logic reasoning. Experiential labs in a virtualized, safe environment provide practice in the configuration and mitigation of system vulnerabilities. Each unit integrates current events and related cyber ethics and law. *This course is a prerequisite for course 95638.*

Cybersecurity 2 - 95638 (Also available online)
This course extends that foundation started in Cybersecurity 1 with new topics in reconnaissance, network & system threats, web applications, databases, and encryption, while emphasizing defense strategies such as preventive controls, security tools, and incident response. Students will be introduced to cyber competitions including the National Cyber Cup, PicoCTF, CyberStart America, and CyberPatriot. These events provide students with opportunities to independently expand their cybersecurity learning, to win scholarships, and to access career pathways.

Communicate and design in the digital world!

Utilize your creativity to inform and entertain an audience through the use of audio, photography and videography.



In-Demand Media Arts & Broadcasting Occupations

Minnesota Salary Range: $31,142 - 81,429

High School Diploma

- Interior Designer
- Content Creator
- Photographer
- Broadcast Technician
- Audio & Video Technician

Bachelor's Degree

- News Analyst
- Reporter
- Journalist
- Graphic Designer
- Producer and Director
- Public Relations Specialist

Course Numbers	Course Name	Credits	Graduation Requirement	Articulated College Credit
92406	Adobe Photoshop (Online only, except at EHS)	.5	Elective	Yes

Interested in commercial photography or graphic design? Express your creativity while you learn the common features and uses of Adobe Photoshop. Create original artwork, manipulate color images, and retouch photographs. (online only)

92416	Adobe Illustrator (Online only)	.5	Elective	Yes

Explore the world of graphic design and learn the principal vector drawing software used in logos, branding, and multimedia. Use Adobe Illustrator to create artwork, learn color theory, drawing and composition, and typography.

92509 92519	Audio Production & Broadcasting 1 Audio Production & Broadcasting 2	1.0	Elective	Yes

Audio Production & Broadcasting 1 - 92509 (Also available online)
Take on the role of a music producer, podcaster, DJ, newscaster, sports play by play announcer, film sound designer, and live sound engineer. Learn media production skills while creating real projects for professional media networks. Explore techniques in high quality microphone recording, content creation, building creative sounds, and audio mixing.

Audio Production & Broadcasting 2 - 92519 (Also available online)
Produce media content that people will watch and listen. Create podcast episodes for your school, music recordings for KBEM Jazz88 fm, and radio spots. Use your talents to host music shows, broadcast news, commentate sports broadcasts and much more. Each student will also have the opportunity to be a host DJ on KBEM's midday show, Jazz With Class.

92606 92616	Digital Photography Advanced Photo & Editing	1.0	Elective	Yes

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 print and digital use; including intro to video production, story concept, lighting, and 3D animation.

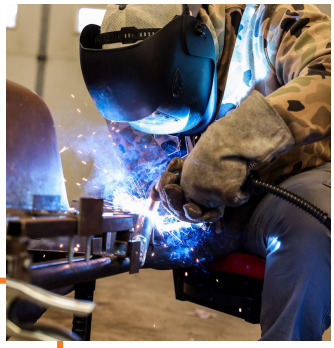
92709 92719	Digital Video 1 Digital Video 2	1.0	Elective	Yes

Digital Video 1 - 92709
Interested in expressing yourself through film and video? Learn all phases of video production, including pre- and 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! 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.

Express your technical and artistic talents in our trades & manufacturing labs!

Learn if a career in construction or welding is right for you. Develop skills you will use for a lifetime.



In-Demand Construction & Welding Occupations

Minnesota Salary Range: $39,149 - 101,713

High School Diploma	Certification	Associate Degree	Bachelor's Degree
Carpenter	Robotic Welder Operator	Welding Fabricator	Architect
Plumber	Field Welder	Architectural and Civil Drafter	Civil engineer
Apprenticeships	Electrician	CNC Operator	Construction Manager

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
96212 96222	Construction Trades 1 Construction Trades 2	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. *This course is a prerequisite for course 96222.*

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.

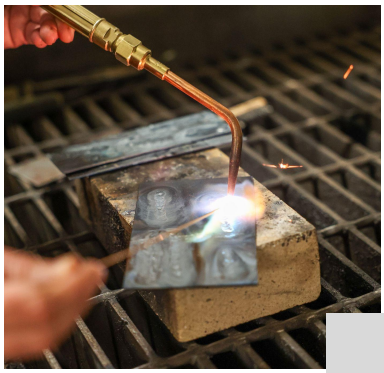
Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
96526 96536	Welding 1 Welding 2	1.0	Elective	Yes

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, and welding various types of metals. This course introduces SMAW, GMAW, Gas Welding,/Cutting, Brazing and Plasma Cutting, as well as all the fabrication tools in the shop. *This course is a prerequisite for course 96536.*

Welding 2 - 96536

This course builds on the skills developed in Welding 1 and focuses on careers and skills needed in the construction industry like reading layouts and measurement. Continue to develop welding skills by practicing various joints, positions and design a large, personal project. Also, tour shops, construction job sites and apprenticeship training facilities.





Learn about careers in manufacturing!

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



In-Demand Machine & Technology Occupations

Minnesota Salary Range: $44,215 - 103,742

High School Diploma

Multiple Machine Tool Operator

Welder

Certification

Machinist

Industrial Machinery Mechanic

CNC Programmer

Associate Degree

Industrial Engineering Technician

Calibration and Engineering Technician

Mechanical Engineering Technician

Bachelor's Degree

Industrial Engineering

Course Number	Course Name	Credits	Graduation Requirement	Articulated College Credit
96301	Machine Technology 1	.5	Elective	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. *This course is a prerequisite for course 96302.*
(Only available at South High School in 2026-27)

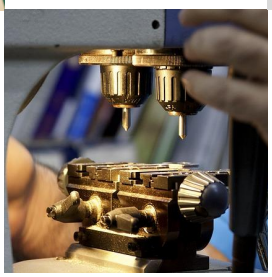
96302	Machine Technology 2	.5	Elective	Yes

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. *This course is a prerequisite for course 96303.*
(Only available at South High School in 2026-27)

96303	Machine Technology 3	.5	Elective	Yes

This advanced course is valuable preparation for students interested in machine tool, manufacturing, mechatronics or engineering careers. Project work is based on interests, skills, and ability. Expand machine shop experiences in various combinations of fundamental mechanisms, methods, and processes as they apply to machine shop tools.
(Only available at South High School in 2026-27)





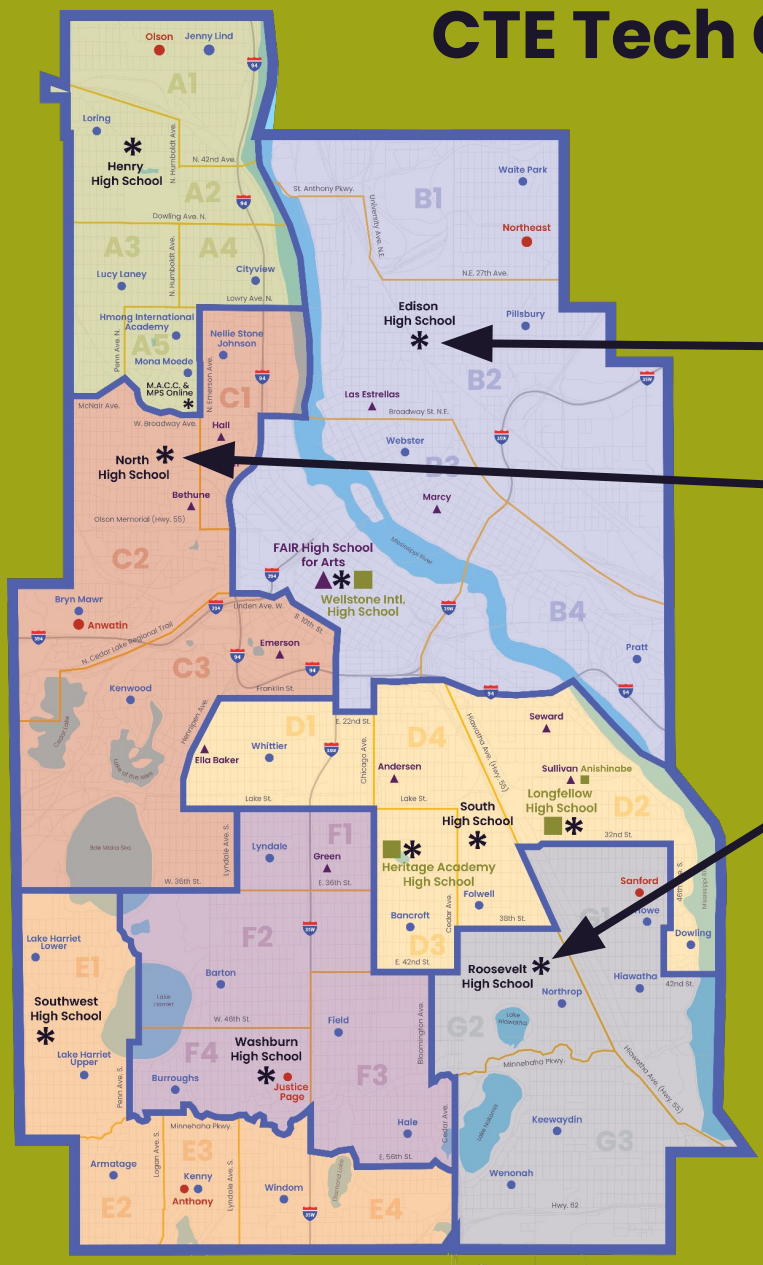
Interested in an apprenticeship-like Experience?

The automotive, manufacturing and construction programs take 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 a professional shop.

Talk to your CTE teacher if you are interested in this opportunity.

CTE Tech Center Locations

Free shuttle service available
to and from CTE Tech Center for all
students from their home high school.



Edison Tech Center
700 22nd Avenue NE - Door 7
Business & Urban Agriculture

North Tech Center
1500 James Avenue N - Door 1
Engineering & Technology,
Healthcare & Caring Professions

Roosevelt Tech Center
4029 S 28th Avenue - Door 13
Automotive, Advanced
Manufacturing & Construction

Questions?
Call *612-668-1771*

Free transportation is available to and from your high school.

REGISTER TODAY!

MINNEAPOLIS
PUBLIC SCHOOLS

mpschools.org/academics/cte