WAYZATA PUBLIC SCHOOLS
CTE
CAREER & TECHNICAL EDUCATION

# CAREER PATHWAYS

View this guide digitally:

https://bit.ly/wayzatapathways

## 2026–2027 COURSE CATALOG

# Electives that work.

Choose from over 70 courses in 11 *career pathways*.







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### COURSE INDICATOR KEY

In the course section, these flags help you find courses that meet your criteria.

AP Advanced Placement – eligible for college credit

APPLIED MATH eligible for fourth year WHS math credit

ART eligible for WHS art credit

CERTIFICATION eligible for industry-specific certification

COLLEGE CREDIT college credit earning

COMPASS a WHS Professional Studies Program

CTC college credit courses at the Career & Tech Center located at the Hennepin Technical College, Eden Prairie

HYBRID combines one day in-person learning with robust online curriculum

PLTW Project Lead the Way – eligible for college credit

STEM eligible for fourth year WHS math or science credit

VITAL vital skills recommended for all students



**Wayzata High School's Career Pathways** courses offer hands-on learning opportunities, professional connections and the chance to develop important skills that prepare you for college, careers, and life.

It comprises of three core programs with more than 70 unique courses organized by areas of interest — **career pathways.**

**career pathway**

*a structured educational and training program designed to prepare students for a specific career or industry.*

## Questions? Contact:


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# CORE PROGRAMS: Together, we are the Career Pathways.

## WHS Career & Technical Education (CTE) *Open to all high school students*

- Balances core academic knowledge with technical and occupational knowledge and skills.
- Helps students develop time management, interpersonal, problem solving and self-awareness skills.
- Courses are designed and taught by WHS Business, Family & Consumer Sciences (FCS), Medical Careers, and Technology Education teachers, with cameos from industry professionals.
- Opportunities to earn college credit, industry certifications and participate in internships, mentorships, and field experiences.
- 70+ classes.

*Courses in this program are unique to WHS.*

## WHS Compass *Open to juniors and seniors*

- A deeper dive into career exploration; CAPS (Center for Advanced Professional Studies)-certified professional career studies program.
- Courses designed and taught by WHS teachers in collaboration with business leaders in our community and faculty from Century College and North Hennepin Community College.
- Earn college credit and work side-by-side with professionals in the workplace.
- Classes offered:
  - AP Cybersecurity and Applied Mathematics with Personal Finance
  - Business Management & Economics
  - Graphic Communications

## WHS CTE Internship/Apprenticeship *Open to juniors and seniors*

- This capstone internship/apprenticeship course provides students with real-world, off-campus work experience in fields such as automotive, business, culinary, education, health science, IT, manufacturing, and pre-construction/architecture. Students complete in-person employability training and may earn paid work experience, college credit, or potential full-time employment. Participants provide their own transportation, apply to the program, and interview with local companies, with release time built into their school day.

*Student Interest Form: https://bit.ly/WHSCTEinternship*

## Career & Tech Center Pathways *Open to juniors and seniors*

- Career and Technical Education (CTE) at Hennepin Technical College offers courses across a range of career fields, from exploratory classes to industry-aligned or college-credit courses.
- Every course includes career exploration, skill development, and career-ready practices to build technical, professional, and leadership skills.
- This half-day program is offered at Hennepin Technical College's Career Tech Center in Eden Prairie, with transportation provided by WHS, allowing students to earn college credit and gain experience on a college campus.
- Career Fields offered: Building & Moving (Supply Chain & Transportation, Construction, Advanced Manufacturing), Caring for Communities (Healthcare, Human Services), Creating & Experiencing (Hospitality/Events/Tourism, Arts/Entertainment/Design), and Investing in the Future (Digital Technology).
- *View the course catalog at https://bit.ly/whsCTCcatalog or scan the QR code.*

# VITAL SKILLS: We encourage all students to take these courses.



## Career Intelligence

### Career Search: Navigating Your Next Steps (875)

Explore and design a plan for your postsecondary education. Identify existing and emerging careers that interest you and match your skills, personality and lifestyle goals.

*Education & Human Services Pathway (see page 18)*



## Tech Savvy

### Digital Citizenship & Computer Skills (705)

Gain a working knowledge of essential computer software and hardware skills you'll need for personal and college success.

*Computer Science & Information Technology Pathway (see page 8)*



## Money Management

**Take at least one.** ***Required for Class of 2028 and after.***

### Finance 1: Personal Finance (722)

COLLEGE CREDIT APPLIED MATH

Learn practical information, tools and strategies that will help you navigate your financial life and achieve long-term financial goals.

### AP Business & Personal Finance (742)

AP APPLIED MATH

An introductory, college-level course that immerses students in the fundamentals of business, entrepreneurship, marketing, management, and finance through real-world applications, case studies, and project-based learning, while also developing the personal financial literacy skills essential for lifelong financial well-being.

### Independent Money Management (855)

APPLIED MATH

Learn the basics of economics and personal finance. Acquire skills you need to wisely manage your resources.

*Finance & Accounting Pathway (see page 25)*

# Updated pathway for 2026-2027:



## Transportation, Robotics & Aviation Technology

### Aviation & Aerospace (223)

The course studies how human innovation transformed aviation, global connectivity, and modern society. In this course, students explore the history of aviation, epic moments, and breakthroughs that revolutionized travel, technology, global conflict, and everyday life. Along the way, students will successfully demonstrate aviation skills like iPad based flight simulation, flight planning, navigation, and how to apply scientific reasoning and risk assessment in modern day aviation. If you've ever wondered what it takes to be part of the flight team or just sharpen your critical thinking, this class is your runway.

# **Business & Entrepreneurship** Pathway

### Career Ideas

Small business owner, entrepreneur, business analyst, corporate attorney, employment attorney, real estate attorney, corporate management, business development, retail and hospitality management, international management consultant

### Learning Experiences

Working in our school store—the Trojan Locker Room, shadow professionals in the workplace, and work with local businesses to conduct real-life research

### Additional Perks

Employability skills, college credit, problem solving and exposure to industry mentors and professionals

### Related Pathways and Clubs

BUSINESS PROFESSIONALS of AMERICA | DECA

Computer Science & Information Technology, Culinary Arts & Food Systems, Finance & Accounting, Marketing, Power Equipment

## Employment Outlook*

**Supply Chain Logisticians**
Median Salary = $80,880
10-year growth projection = 17%

**Management Analyst**
Median Salary = $101,190
10-year growth projection = 9%

**Human Resources Specialist**
Median Salary = $72,910
10-year growth projection = 6%

**Meeting, Convention, and Event Planners**
Median Salary = $59,440
10-year growth projection = 5%

**Project Management Specialist**
Median Salary = $100,750
10-year growth projection = 6%

*Source: U.S. Bureau of Labor Statistics, 1/4/26



# **Business & Entrepreneurship** Courses

All classes meet elective credit requirement

## Introductory

### Business 1: Fundamentals (735)

**Grades 9–12:** 1 term/1 credit

### Hospitality and Tourism (736)

**Grades 9–12:** 1 term/1 credit

CERTIFICATION

## Intermediate

### AP Business & Personal Finance (742)

**Grades 10–12:** 2 terms/2 credits

AP APPLIED MATH NEW

### Business 2: Law & Ethics (724)

**Grades 10–12:** 1 term/1 credit

***Prerequisite:*** *Business 1*

### Business 2: Entrepreneurship (734)

**Grades 10–12:** 1 term/1 credit

COLLEGE CREDIT HYBRID

***Prerequisite:*** *Accounting 1, Business 1, or Marketing 1*

### Business 2: International (733)

**Grades 10–12:** 1 term/1 credit

***Prerequisite:*** *Business 1*

## Advanced

### Compass Business Management & Economics (9991A & 9991B)

**Grade 12:** 2 terms [2 periods]/4 credits

COMPASS COLLEGE CREDIT HYBRID

***Prerequisite:*** *Accounting 1 or Business 1*

### CTE Internship/ Apprenticeship (9981)

**Grades 11–12:** 2 terms/2 credits or 4 terms/4 credits

***Prerequisite:*** *Any introductory-level, related course*

> *"(Business 1: Fundamentals) taught me a lot about things that are applicable to the outside world. I learned things that I can use right now."*
> *— Danica Nash, Class of 2025*

> *"(Business 2: Entrepreneurship) allows you to be creative and pursue your own ideas while also getting a feel for what it takes to start a business in the real world."*
> *— Brandon Jackson, Class of 2021*

# Course Descriptions: Business & Entrepreneurship

## Introductory

### Business 1: Fundamentals (735)

*Introduces the basics of business economics, communications, and entrepreneurship while exploring the government's role in business and various business career paths. Students learn key concepts in marketing, finance, economics, ethics, and communication. The course offers comprehensive exposure to business operations and provides a strong foundation for future business classes, making it ideal for individuals interested in business fundamentals or related careers.*

### Hospitality and Tourism (736)

*Over 17 million Americans work in tourism and hospitality (hotels, amusement parks, art museums, restaurants, airlines, sports organizations, etc ), making it the fifth largest industry in the country. Explore careers in lodging, food and beverage, travel, event planning, tourism, and attractions. Discover customer service, operations, ethics, and sustainability through hands-on projects, simulations, and expert guest speakers.*

## Intermediate

### AP Business & Personal Finance (742)

*See page 27 for more information.*

### Business 2: Law & Ethics (724)

*This course provides a strong foundation in business law while introducing personal law topics that impact everyday life. Through class discussions, current events, case studies, and tests, students explore concepts in contract, property, and employment law, intellectual property law, and tort law. They develop skills in legal analysis, gain insight into the relationship between ethics and law, and examine both classic and contemporary legal cases. Great for students who enjoy analytical thinking and examining real legal cases.*

### Business 2: Entrepreneurship (734)

*Utilize the Lean Startup method to design and launch a business idea. Activities include conducting interviews, pitching ideas, and developing business plans. Build creative problem-solving, communication, and leadership skills. This class is a hybrid course, so students will have opportunities to interact with potential customers outside of school during class time.*

*This class is concurrently enrolled with Hennepin Technical College, allowing students to earn up to 3 credits from HTC while also earning high school credit.*

### Business 2: International (733)

*The U.S. has the world's largest economy but represents only 5% of the world's population. Explore foreign markets from geographic, economic, political, and cultural perspectives and identify potential global career opportunities. Students learn through interactive hands-on projects, simulations, research, presentations, class discussions, individual/group work, industry exams, and summative and formative assessments. Topics include legal, political, economic, geographic, and cultural arenas of countries that pique your interest; dive into what it would take to open a business in another country. Gain skills in a global mindset with an understanding of international trade, cross-cultural communications, marketing, and management practices, and increased awareness of career opportunities in the international business and entrepreneurship sector. This class is perfect for students with an interest in exploring global business opportunities and concepts*

## Advanced

### Compass Business Management & Economics (9991A & 9991B)

*Compass Business Management is a two-term, two-block-per-day course that combines Principles of Management and Economics for a total of four WHS credits. This Compass course fulfills the Senior Economics WPS graduation requirement and provides eligible students the opportunity to earn three college credits through concurrent enrollment in "BUS2200: Principles of Management" at North Hennepin Community College, transferable to many colleges and universities nationwide.*

*This course blends theory and application to examine how organizations operate within complex economic systems. Students study how for-profit and nonprofit organizations are structured, how they interact with customers and government, and how economic forces influence decision-making. Emphasis is placed on understanding scarcity, resource allocation, global trends, and the impact of public policy on organizations.*

*Experiential learning is central to the course. Students partner with local businesses, visit organizations, and learn directly from industry mentors while completing hands-on projects addressing real-world challenges. Through research, collaboration, and applied problem-solving, students develop leadership, project management, communication, teamwork, and critical thinking skills. This course is designed for students interested in exploring business careers while gaining practical experience beyond the traditional classroom.*

# **Computer Science & Information Technology** Pathway

### Career Ideas

Quality assurance, security, system or data analyst, engineer, game or app developer, game hardware technician, help desk associate, network/systems administrator, network architect, penetration tester, data scientist, web developer/designer, information systems manager, chief technology officer or information officer, artificial intelligence data scientist, machine learning engineer

### Learning Experiences

Project-based, hands-on classroom learning with the leadership and guidance of experienced teachers; opportunities to learn from business professionals through shadowing, mentorship, and guest speaker opportunities

### Additional Perks

Creative expression, critical thinking, problem solving, employability skills

### Related Pathways and Clubs

Business & Entrepreneurship, Engineering, Architecture & Design, Finance & Accounting, Graphics & Digital Design, Marketing

BUSINESS PROFESSIONALS of AMERICA

FIRST

MTHS MINNESOTA TECHNICAL HONOR SOCIETY

## Employment Outlook*

**Computer & Info Research Scientists**
Median Salary = $140,910
10-year growth projection = 20%

**Computer Network Architects**
Median Salary = $130,390
10-year growth projection = 12%

**Software Developers / Quality Analysts**
Median Salary = $131,450
10-year growth projection = 15%

**Database Administrator / Architect**
Median Salary = $120,100
10-year growth projection = 4%

**Information Security Analyst**
Median Salary = $124,910
10-year growth projection = 29%



# **Computer Science & Information Technology** Courses

All classes meet elective credit requirement

## Introductory

### AI for All: The Impact of Artificial Intelligence on Sports, Business, and You (762S)

**Grades 9–12:** 1 term/1 credit

STEM

### Computer Programming with JavaScript (718)

**Grades 9–12:** 1 term/1 credit

STEM

### Computer Systems and Troubleshooting Foundations SA

**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Digital Citizenship & Computer Skills (705)

**Grades 9–12:** 1 term/1 credit

VITAL

### Game Design 1 (921)

**Grades 9–12:** 1 term/1 credit

STEM

### Website Design 1 (708)

**Grades 9–12:** 1 term/1 credit

STEM

## Intermediate

### AP Computer Science Principles (944)

**Grades 10–12:** 2 terms/2 credits

AP HYBRID PLTW STEM

### AP Networking (716)

**Grades 10–12:** 2 terms/2 credits

AP STEM

### Computer Hardware: Build and Repair SB

**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Computer Systems and Troubleshooting Foundations SA*

### Computer Programming with C++ (719 C)

**Grades 9–12:** 1 term/1 credit

COLLEGE CREDIT STEM

***Prerequisite:*** *Geometry or Accelerated Geometry*

### Cybersecurity

**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Networking: Design, Build, and Manage

**Grades 11–12:** 2 terms/4 credits

CTC STEM

### PC Hardware & Troubleshooting (760)

**Grades 9–12:** 2 terms/2 credits

CERTIFICATION STEM

## Advanced

### AP Computer Science A (947)

**Grades 10–12:** 2 terms/2 credits

AP HYBRID STEM

***Recommended:*** *Computer Programming with C++*

***Prerequisite:*** *PreCalculus or Accelerated PreCalculus*

### Compass AP Cybersecurity & Applied Mathematics with Personal Finance (9993C & 9993B)

**Grades 11–12:** 2 terms [2 periods]/ 4 credits

CERTIFICATION COMPASS COLLEGE CREDIT STEM

***Prerequisites:*** *Any computer-related course and Geometry or Accelerated Geometry*

### Game Design 2 (922)

**Grades 9–12:** 1 term/1 credit

STEM

***Prerequisite:*** *Game Design 1*

### Website Design 2 (709)

**Grades 10–12:** 1 term/1 credit

STEM

***Prerequisite:*** *Website Design 1*

### CTE Internship/ Apprenticeship (9981)

**Grades 11–12:** 2 terms/2 credits or 4 terms/4 credits

***Prerequisite:*** *Any introductory-level, related course*

> *"Through my courses at Wayzata High School, I have learned about the significance of computer programming in the professional world, inspiring me to pursue a career as a computer scientist and use programming skills and knowledge of computer software to create a real-world impact."*
> *— Joshi Dhaivat, Class of 2024*

# Course Descriptions: Computer Science & Information Technology

## Introductory

### Artificial Intelligence for All: The Impact of AI on Sports, Business, and You (762)

*This exciting, project-based course introduces the fundamentals of AI and Machine Learning through the lens of real-world tools and sports analytics. Students will progress from understanding basic data patterns to building simple AI models, all while exploring the ethical implications of technology on their daily lives. Designed to inspire creativity and teamwork, this inclusive class proves that AI is for everyone and provides the perfect foundation for future tech exploration.*

### Computer Programming with JavaScript (718)

*Expand your creativity into the virtual world of programming and learn the fundamental concepts that underpin it. Develop problem-solving and JavaScript skills, create apps with MIT App Inventor, and explore computer science/programming careers. Students will learn through interactive assignments, hands-on projects, presentations, individual/group learning, and quizzes. Learn how computers process instructions/store information, how to write basic instructions that allow a computer to solve problems, how to create applications for Android mobile devices, and how to script. Students will gain skills in JavaScript, HTML, CSS, Canva, and MIT App Inventor, as well as a brief introduction to another programming language, such as C++. This class is ideal for students with little to no programming knowledge who are seeking a gentle introduction to the basics of several new computer languages. This course is a good prerequisite for Web Design 1.*

### Computer Systems and Troubleshooting Foundations SA

CTC see page 3

### Digital Citizenship & Computer Skills (705)

*Gain a working knowledge of essential computer software and hardware skills needed for personal and college success through interactive assignments and hands-on projects. Students will gain skills in Microsoft Excel and Word, basic hardware knowledge, simple website design, intro to information technology, cybersecurity basics, and purchasing a computer. This class is ideal for all students and provides the skills necessary for success in many business and technology classes, as well as in high school and any post-secondary path.*

### Game Design 1 (921)

*Learn to design games from a problem-solving point of view and develop publishable games that include animation, sound, and special effects. Final projects can be submitted to an online STEMFUSE game competition. This class focuses on project-based learning. Topics include Construct3, event-driven programming, variables, and if-else statements. Students gain skills in problem-solving, technical reading, and troubleshooting. This class is ideal for students interested in creating games — whether for personal enjoyment or as a career — and is also suitable for anyone seeking a career in programming.*

### Website Design 1 (921)

*Develop a publishable website using HTML/CSS/JavaScript code. Students learn through interactive assignments, hands-on projects, and group lectures covering topics such as HTML, CSS, JavaScript, Photoshop, Sound and Video (MP3 and MP4 files), logo development, site navigation, and links. Gain skills in critical problem-solving, layout and web typography, effective use of color, and screen image resolution. Through this class, students will understand and exhibit skills relating to the principles of creating an effective web page, including an in-depth exploration of HTML/CSS/JavaScript. This class is ideal for students interested in exploring web design.*

## Intermediate

### AP Computer Science Principles (944)

*Explore the diverse landscape of computer science through this project-based course that emphasizes programming, cybersecurity, and the ethics of technology. Students develop practical skills in Python and data analysis while examining the global impact of artificial intelligence and digital infrastructure. Designed to inspire the next generation of innovators, the course provides the knowledge and skills needed for success on the AP Computer Science Principles exam.*

### AP Networking (716)

*This program is equivalent to an introductory college networking course and integrates hands-on configuration with advanced cybersecurity concepts. Students will learn to design secure networks and troubleshoot complex hardware issues while preparing for the aligned industry-recognized CompTIA credential (IRC). The curriculum emphasizes the collaborative and technical communication skills essential for success in modern IT and security roles.*

### Computer Hardware: Build and Repair SB

CTC see page 3

### Cybersecurity

CTC see page 3

### Computer Programming with C++ (719)

*Earn college credit while learning core programming concepts, including data types, control structures, algorithms, classes, and data structures. Students design, write, and test programs in C++. This course is ideal for students interested in computer science or engineering and requires no prior programming experience.*

*Note: Computer Programming with JavaScript is NOT required to take this course.*

### Networking: Design, Build, and Manage

CTC see page 3

### PC Repair and Troubleshooting (760)

*Prepare for the CompTIA A+ certification by gaining comprehensive experience in installing, configuring, and upgrading modern hardware and network systems. Through a blend of physical projects and online simulations, students will learn to navigate the complexities of printers, mobile devices, and cloud infrastructure. By the end of the term, you will have the technical skills needed to maintain high-performance systems and solve real-world hardware challenges.*

# Course Descriptions: Computer Science & Information Technology

**Advanced**

## AP Computer Science A (947)

*In this class, students will learn to program in Java, with a strong focus on algorithms and fundamental data structures. Students develop problem-solving and critical-thinking skills while learning how these concepts are applied in real-world programming. The class is well-suited for students interested in computer science and engineering, or for those who just want to learn advanced programming and logical design.*

## Compass AP Cybersecurity + Applied Math with Personal Finance (9993B & 9993C)

*Compass AP Cybersecurity & Applied Mathematics with Personal Finance is a two-term, interdisciplinary course scheduled for two blocks per day and earns four WHS credits. This Compass course fulfills the Personal Finance WPS graduation requirement and offers eligible students the opportunity to earn three college credits through concurrent enrollment in "CVF1065: Computer Forensics" at Century College, transferable to many colleges and universities nationwide.*

*This college-level course explores how data, systems, and money interact in an increasingly digital world. Students examine the modern cybersecurity landscape, learning how adversaries exploit system vulnerabilities and how organizations manage risk through security controls, policies, and procedures. Through digital forensics, students practice evidence collection and analysis while building foundational knowledge in networking, encryption, and cybersecurity principles.*

*Applied mathematics is embedded throughout the course, with real-world applications including graph theory, game theory, voting methods, cryptography, and financial systems. Students also develop essential personal finance skills, exploring financial psychology, income and earnings, budgeting, credit and debt management, risk, and investing. Emphasis is placed on practical application, critical thinking, and informed decision-making.*

*The course is team-taught and emphasizes experiential learning through hands-on projects with real organizations, guest speakers, mentors, off-site experiences, and interactive assignments. It is well-suited for students interested in technology, engineering, mathematics, business, finance, or law enforcement.*

## Game Design 2 (922)

*Enhance the technical skills and knowledge you acquired in Introduction to Game Design and delve into more advanced programming topics. Students will learn through hands-on projects, team learning, and game creation. Topics include designing intermediate games, college and career exploration, debugging, and current events in the gaming industry. Develop problem-solving, motion graphics, and creative skills. This class is ideal for students interested in creating games for enjoyment and/or pursuing a career in the technology field.*

## Website Design 2 (709)

*Take a deeper dive into website design/development using HTML/CSS and JavaScript to create a live, multimedia-based, interactive website through interactive assignments and hands-on projects/presentations, including creating a live project with a web design professional. The class will cover advanced topics in HTML, CSS, JavaScript, Photoshop, and multimedia file formats, including MP3 and MP4, as well as logo development, site navigation, and link creation. Students will learn the principles of creating an effective web page, including an in-depth exploration of HTML, and gain skills in problem-solving, layout, web typography, effective use of color, and image resolution. This class is perfect for students interested in web design.*

## CTE Internship/Apprenticeship (9981)

See page 3 for more information.

*Student Interest Form: https://bit.ly/WHSCTEinternship*

# **Construction & Manufacturing** Pathway

### Career Ideas

Carpenter, welder, cabinet maker, plumber, sheet metal worker, pipe fitter, boilermaker, construction manager, architect, manufacturing engineer, HVAC technician, machinist, diesel equipment operator

### Learning Experiences

Hands-on projects like building sheds and using power equipment, visits to colleges and businesses; participating in state and national competitions

### Additional Perks

Acquire construction and manufacturing skills you can use throughout life. Begin pathway to readiness for high-wage, high-demand careers in construction, manufacturing and related fields.

### Related Pathways and Clubs

Engineering, Architecture & Design

## Employment Outlook*

**Elevator & Escalator Installers/Repairers**
Median Salary = $106,580
10-year growth projection = 5%

**Plumbers, Pipefitters, Steamfitters**
Median Salary = $62,970
10-year growth projection = 4%

**Electrician**
Median Salary = $62,350
10-year growth projection = 9%

**Ironworker**
Median Salary = $61,940
10-year growth projection = 4%

**Carpenter**
Median Salary = $59,310
10-year growth projection = 4%



# **Construction & Manufacturing** Courses

: All classes meet elective credit requirement

## Introductory

### Construction 1 (912)
**Grades 9–12:** 1 term/1 credit

STEM

### Construction: Practicum for Independent Living
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### How Machines Work: Mechatronics SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Metal Manufacturing (945)
**Grades 9–12:** 1 term/1 credit

STEM

### Wood Manufacturing 1 (950)
**Grades 9–12:** 1 term/1 credit

STEM

## Intermediate

### Construction 2 (913)
**Grades 9–12:** 1 term/1 credit

STEM

***Prerequisite:*** *Construction 1*

### Residential Construction: Interiors SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Robotic Engineering: Mechatronics SB
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *How Machines Work: Mechatronics SA*

### Wood Manufacturing 2 (951)
**Grades 10–12:** 2 terms/2 credits

COLLEGE CREDIT STEM

***Prerequisite:*** *Wood Manufacturing 1*

## Advanced

### Automated Engineering (953)
**Grades 9–12:** 1 term/1 credit

CERTIFICATION STEM

### CTE Internship/ Apprenticeship (9981)
**Grades 11–12:** 2 terms/2 credits or 4 terms/4 credits

***Prerequisite:*** *Any introductory-level, related course*

### Residential Construction: Exteriors SB
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Residential Construction: Interiors SA*

*"The woods manufacturing courses helped me get over my fear of using large machinery. I learned to trust myself and feel confident in the skills I learned how to do. The class can also help you learn about careers and how to fix something in your house."*
*— Andy Thao, Class of 2026*

*"With the head start I got from taking Construction and Manufacturing classes at WHS, I am as prepared as some of my co-workers who have been working at the job for three years. I still have a lot to learn but I am enjoying every minute of my career in carpentry and am already looking to buy my first house nine months after starting my career."*
*— Peter Ojeda, Class of 2017*

# Course Descriptions: Construction & Manufacturing

## Introductory

### Construction 1 (912)

*Learn the basics of home renovation and maintenance, and explore construction-related careers through interactive assignments, hands-on projects, full-scale projects, and individual and group learning. This class will cover electrical wiring, plumbing, heating and cooling, wall framing, drywall repair/installation, adjusting and installing windows, doors, and trim, siding, and other construction basics. Students develop skills in basic construction and maintenance, including the use of hand/power tools, building materials, framing, drywall, and safety protocols for electrical and construction work. This class is ideal for students who want to learn how to build and maintain the basic systems found in a typical home.*

### Construction: Practicum for Independent Living

CTC see page 3

### How Machines Work: Mechatronics SA

CTC see page 3

### Metal Manufacturing (945)

*Learn about basic metal, machining, and plastics manufacturing, advanced information and techniques required for engineering, manufacturing, and reverse engineering products, and explore manufacturing careers through interactive assignments, real-world experience, hands-on projects, and individual and group learning. This class will cover prototyping, welding, machine processes (lathe and millwork), sheet metal, plastics, blueprint reading, and drafting. Students acquire skills in sheet metal fabrication, machining, millwork, and plastics processing. This class is perfect for students who want to go beyond the basics.*

### Wood Manufacturing 1 (950)

*Learn the basics of woodworking and cabinet making. Experience working safely with more than 15 precision machines and several CNC/Robotic tools. Design and construct a product of your choice—and take it home with you! You will be responsible for the cost of materials. Students learn cutting-edge manufacturing processes, precision machinery, and CNC/robotic tools through hands-on projects, group work, and problem-solving exercises. Gain skills in woodworking, cabinet making, design and construction, hand/power tool and large precision equipment operation, care and use of tools, machines, and materials, time management, and safety protocols. This class is ideal for students interested in learning the basics of operating hand, power, and stationary woodworking equipment.*

## Intermediate

### Construction 2 (913)

*Gain in-depth construction skills by building a structure (shed, small garage, or gazebo, etc.) for a customer and explore construction-related careers. Learn through examples, full-size building structures, real-world experience, interactive assignments, hands-on projects, and individual and group learning. This class will cover exterior finishing systems, roofing, soffit and fascia, electrical wiring, construction skills, plumbing, heating and cooling, advanced wall framing, siding/roofing/windows/doors/trim, among other topics. Learn about industry building standards, build a full-size structure using framing, blueprint reading, and various building materials, gain knowledge about OSHA construction site safety, and learn to work with others as a crew. This class is ideal for students who want to learn how to design and build the advanced systems of a residential structure.*

### Residential Construction: Interiors SA

CTC see page 3

### Robotic Engineering: Mechatronics SB

CTC see page 3

### Wood Manufacturing 2 (951)

*Wood Manufacturing 2 builds on skills developed in introductory woodworking courses and gives students the opportunity to design and fabricate high-quality wood products. Students apply principles of woodworking design, 3D digital modeling, and CNC technology to create projects of their choosing, culminating in a student-designed capstone project that they keep. Students are responsible for the cost of materials. Learning occurs through independent, hands-on projects that emphasize problem-solving, critical thinking, and real-world production practices. Topics include principles of wood manufacturing design, CNC router operation, robotic technology integration, and 3D design. Students develop advanced skills in machine setup for production runs, CNC operation, digital design, and prototyping. This course is perfect for students who are serious about woodworking and/or are preparing for careers in engineering, manufacturing, construction, or the skilled trades.*

## Advanced

### Automated Engineering (953)

*This hands-on course introduces students to design, automation, and modern manufacturing. Students create and machine original projects using robots and CNC equipment such as mills, routers, and laser engravers, programming them with G-Code and industry-standard software, including SketchUp, VCarve Pro, and Autodesk Inventor. Working with materials such as solid lumber, engineered wood, and Corian, students learn the safe setup, operation, and basic maintenance of CNC and robotic equipment. Ideal for students interested in design, engineering, fabrication, manufacturing, or skilled trades.*

### Residential Construction: Exteriors SB

CTC see page 3

# **Culinary Arts & Food Systems** Pathway

**Career Ideas**

Chef, consumer insights, dietitian, farming, food safety, food science, food security, food systems, food writer, nutritionist, public health, sustainability coordinator

**Learning Experiences**

Hands-on learning, lab work, guest chefs, field trips

**Additional Perks**

Employability skills, problem solving, collaboration, teamwork

**Related Pathways and Clubs**

Business & Entrepreneurship

SkillsUSA®

## Employment Outlook*

**Agricultural and Food Scientists**
Median Salary = $79,770
10-year growth projection = 6%

**Executive Chef**
Median Salary = $60,990
10-year growth projection = 7%

**Food Service Manager**
Median Salary = $65,310
10-year growth projection = 6%

**Dietitians / Nutritionists**
Median Salary = $73,850
10-year growth projection = 6%

**Baker**
Median Salary = $36,650
10-year growth projection = 6%



# **Culinary Arts & Food Systems** Courses

: All classes meet elective credit requirement

## Introductory

### Culinary 1: Foundations (870)
**Grades 9–12:** 1 term/1 credit

## Intermediate

### Cooking for Independent Living SA
**Grades 11–12:** 2 terms/4 credits

CERTIFICATION CTC

### Culinary Arts SA
**Grades 11–12:** 2 terms/4 credits

CERTIFICATION CTC

## Advanced

### Cooking for Independent Living SB
**Grades 11–12:** 2 terms/4 credits

CERTIFICATION CTC

### Culinary 2: Main Courses (871)
**Grades 10–12:** 1 term/1 credit

***Prerequisite:*** *Culinary 1: Foundations*

### Culinary 2: Baking & Pastry (872)
**Grades 10–12:** 1 term/1 credit

***Prerequisite:*** *Culinary 1: Foundations*

### Culinary Arts SB
**Grades 11–12:** 2 terms/4 credits

CERTIFICATION CTC

***Prerequisite:*** *Culinary Arts SA*

> *"The culinary classes introduced me to new foods; I used to be really picky but being in the class has broadened my palate. I have also improved my skills in the kitchen and have prepared dinner for my family multiple times."*
> *— Audrey Kauffmann, Class of 2025*

> *"I've learned the fundamentals of baking. I didn't know anything other than how to follow the directions of a recipe. I now have a good understanding of how ingredients, measurements and the recipe will affect how baked goods will turn out. I'm excited to put my new knowledge into the next thing I make. I know I'll be prepared for it because of this class."*
> *— Ethan Chaffee, Class of 2022*

# Course Descriptions: Culinary Arts & Food Systems

## Introductory

### Culinary 1: Foundations (870)

*Learn how to be a better cook! Explore the fundamentals of culinary foundations and cooking techniques by collaborating on and preparing a diverse range of recipes. Students will gain experience with knife skills and with preparing bread, grains, pasta, meat, and vegetables. This class is ideal for students who enjoy cooking and want to enhance their culinary skills.*

## Intermediate

### Cooking for Independent Living SA

CTC see page 3

### Culinary Arts SA

CTC see page 3

## Advanced

### Cooking for Independent Living SB

CTC see page 3

### Culinary 2: Main Courses (871)

*Build on what you learned in Introduction to Culinary Arts. Create a wide variety of delicious main courses as you master classic cooking techniques, all while enhancing flavor through sauces and spice application.*

### Culinary 2: Baking & Pastry (872)

*Learn baking and pastry fundamentals and the science behind them through hands-on practice in culinary labs. Gain skills in quick and yeast bread, pastries, pies and tarts, chocolate, custards, cakes, creams and sauces, and specialty desserts. This class is perfect for students who are curious about the world of a pastry chef.*

### Culinary Arts SB

CTC see page 3

# **Education & Human Services** Pathway

### Career Ideas

Teaching, child development, child care, counseling, psychologist, child protection, pediatrics, therapist, social work

### Learning Experiences

Field trips, hands-on activities, project-based learning, guest speakers, team building, group discussion, collaborative learning

### Additional Perks

Employability skills, college credit, applied math credits, job shadow opportunities

### Related Pathways and Clubs

Health Science

VOLUNTEER CLUB
Wayzata High School

## Employment Outlook*

**Marriage and Family Therapist**
Median Salary = $63,780
10-year growth projection = 13%

**Social Worker**
Median Salary = $61,330
10-year growth projection = 6%

**Psychologist**
Median Salary = $94,310
10-year growth projection = 6%

**Principal**
Median Salary = $104,070
10-year growth projection = -2%

**Speech & Language Pathologist**
Median Salary = $95,410
10-year growth projection = 15%



# **Education & Human Services** Courses

: All classes meet elective credit requirement

## Introductory

### Career Search: Navigating Your Next Steps (875)
**Grades 9–12:** 1 term/1 credit

VITAL HYBRID

### Career Studio: Cosmetology 1 SA
**Grades 11–12:** 2 terms/4 credits

CTC

### Child Psychology 1 (863)
**Grades 9–12:** 1 term/1 credit

### Personal & Family Wellness 1 (860)
**Grades 10–12:** 1 term/1 credit

## Intermediate

### Academic Mentor (046, 048, 049)
**Grades 11–12:** 1 term/1 credit

### Career Studio: Cosmetology 2 SB
**Grades 11–12:** 2 terms/4 credits

CTC

***Prerequisite:*** *Career Studio: Cosmetology 1 SA*

### Child Psychology 2 (864)
**Grades 10–12:** 1 term/1 credit

CERTIFICATION

***Prerequisite:*** *Child Psychology 1*

## Advanced

### Exploring Careers in Education (866)
**Grades 11–12:** 2 terms/2 credits

COLLEGE CREDIT HYBRID

### Personal & Family Wellnes 2 (862)
**Grades 10–12:** 1 term/1 credit

***Prerequisite:*** *Personal & Family Wellness 1*

### CTE Internship/ Apprenticeship (9981)
**Grades 11–12:** 2 terms/2 credits or 4 terms/4 credits

***Prerequisite:*** *Any introductory-level, related course*

> *"(Exploring Careers in Education) is one of the best experiences I have had in my life. I learned from the instructor, my cooperating teacher and the students in my field experience class. I think this class will help me become the teacher I want to be."*
>
> *— Addie Kirk, Class of 2025*

# Course Descriptions: Education & Human Services

## Introductory

### Career Search: Navigating Your Next Steps (875)

*Explore careers that match your skills, interests, and values while planning your future after high school. Students engage in self-assessments, career research, informational interviews, reflection activities, and portfolio development. Topics include the career search process, workplace trends, post-secondary options, resume writing, interviewing, emotional intelligence, and personal branding. This course is ideal for students who are certain or undecided about their post-high school plans.*

### Career Studio: Cosmetology 1 SA

CTC see page 3

### Child Psychology 1 (864)

*Explore infant and toddler growth through child development theories, biological and environmental influences, and prenatal development. Students engage in observations, simulations, projects, guest speakers, and research to study physical, cognitive, emotional, social, and moral development. Topics include neurodevelopment, nature vs. nurture, fetal and brain development, language and cognitive growth, attachment, self-concept, and peer relations. Students develop skills in empathy, communication, teamwork, creativity, and leadership. This course is ideal for students interested in psychology, human development, or careers in early childhood education.*

### Personal & Family Wellness 1 (860)

*In a supportive environment, explore family dynamics, healthy communication, and intimate relationships, with a focus on mental health and teen issues. This class helps students build stronger relationships and gain a deeper insight into themselves and others. This class is perfect for students wanting to develop greater self-awareness and empathy, and for anyone interested in pursuing a career in education, social services, social work, or psychology.*

### Unified Arts Field Experience (867)

*In this hands-on course, students collaborate with peers with special needs through engaging visual art and culinary projects. You'll explore creative expression while learning how to thoughtfully adapt activities to support individual strengths and needs. Alongside the classroom experience, students complete an online curriculum focused on careers in special education. Throughout the term, students build skills in art, cooking, teamwork, communication, and problem-solving. This course is an excellent fit for students who enjoy creativity, collaboration, and supporting others in inclusive learning environments.*

## Intermediate

### Academic Mentor (046, 048, 049)

*Academic Mentoring is a leadership course that enables students to support their peers academically while developing essential skills in communication, organization, and problem-solving. Mentors work in classrooms under a supervising teacher to build relationships, guide learning, and support study skills and assessment preparation. Through hands-on mentoring, students grow as leaders while making a positive impact on the school community. On-campus placements will be determined during the first week of the term.*

### Career Studio: Cosmetology 2 SB

CTC see page 3

### Child Psychology 2 (864)

*Learn about infant and toddler development through child development theories, biological and environmental factors that shape human development, prenatal development, and the physical, intellectual, emotional, social, and moral development of infants and toddlers. Students learn through child observations, group discussions, projects, guest instructors, infant care simulations, and research. This class will cover early neurodevelopment, the interplay between nature and nurture, the developmental origins of health and disease, fetal development, the development of the body and the brain, cognitive and language development, emotional development and attachment, the development of self-concept and self-esteem, social cognition, and the development of peer relations. Students develop skills in self-reflection, healthy communication, empathy, self-acceptance, acceptance of others, higher-order thinking, creativity, teamwork, and positive leadership. This class is ideal for students interested in psychology, human development, or those considering a career in early childhood education.*

## Advanced

### Exploring Careers in Education (866)

*Explore education professions, trends, issues, and more through student teaching field experience, guest instructors, individual and group presentations, and daily hands-on activities. Students will gain leadership, collaboration, and lesson planning skills. The class will cover topics in K-12 education, including teaching, social work, and counseling; education trends and issues; instructional practices and classroom management; and the roles and responsibilities of teachers, learners, and other stakeholders in the school system. This class is ideal for individuals considering careers in education, social services, social work, or psychology that involve working with children and adolescents.*

*Exploring Careers in Education is offered as concurrent enrollment, which means students can earn 3 college credits through Minnesota State Mankato upon successful completion of the course.*

### Personal & Family Wellness 2 (862)

*In a supportive environment, continue exploring real-life issues such as couples relationships, addiction and recovery, and building a positive self-image. Students will learn strategies for coping in healthy ways and strengthening their personal and interpersonal well-being. This class is perfect for students wanting to develop greater self-awareness and empathy, and for anyone interested in pursuing a career in education, social services, social work, or psychology.*

# Engineering, Architecture & Design Pathway

**Career Ideas**

Architect, architectural CAD technician, BIM specialist, construction manager, engineer (civil, mechanical, electrical, structural, manufacturing, etc.), automation & robotics, engineering technician, mechanical designer, industrial designer, interior designer, surveyor, project manager

**Learning Experiences**

Designing homes, proposing additions/expansions to commercial buildings, developing floor plans, exploring effective layouts, shadowing professionals in the workplace, utilizing virtual reality to generate solutions and develop cost estimates, working with local businesses to conduct real-life engineering simulations

**Additional Perks**

Employability skills, STEM credits, and Project Lead the Way (PLTW)

**Related Pathways and Clubs**

Computer Science & Information Technology, Construction & Manufacturing, Transportation, Robotics, & Aviation Technology

## Employment Outlook*

**Architect**
Median Salary = $96,690
10-year growth projection = 4%

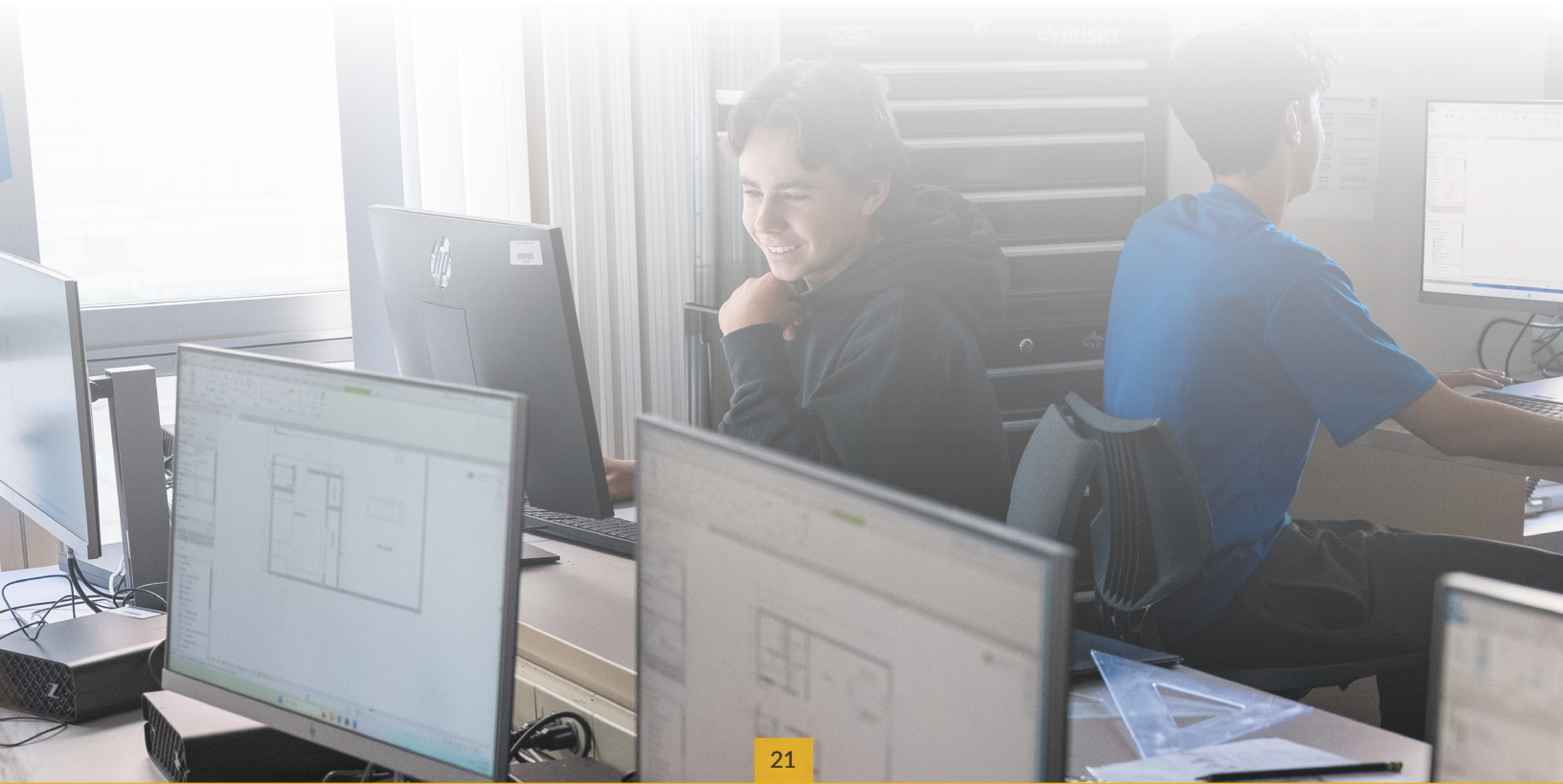
**Mechanical Engineer**
Median Salary = $102,320
10-year growth projection = 9%

**Electrical Engineer**
Median Salary = $118,780
10-year growth projection = 7%

**Civil Engineer**
Median Salary = $99,590
10-year growth projection = 5%

**Architectural/Engineering Manager**
Median Salary = $167,740
10-year growth projection = 4%

**Interior Designer**
Median Salary = $63,490
10-year growth projection =3%



# **Engineering, Architecture & Design** Courses

All classes meet elective credit requirement

## Introductory

### Applied Robotics (925)
**Grades 9–12:** 1 term/1 credit

STEM

### Architectural Design 1 (910)
**Grades 9–12:** 1 term/1 credit

STEM

### Engineering 1: Concepts (940)
**Grades 9–12:** 1 term/1 credit

STEM

### Interior Design 1 (861)
ART

**Grades 9–12:** 1 term/1 credit

## Intermediate

### Architectural Design 2 (911)
**Grades 9–12:** 2 terms/2 credits

STEM

*Prerequisite: Architectural Design I*

### Engineering 2: Design (IED) (942)
**Grades 10–12:** 2 terms/2 credits

PLTW STEM

### Interior Design 2 (881)
**Grades 10–12:** 1 term/1 credit

ART

***Prerequisite:*** *Interior Design 1*

## Advanced

### Engineering 2: Civil (CED) (943)
**Grades 10–12:** 2 terms/2 credits

PLTW STEM

***Prerequisite:*** *Engineering 1 and Architectural Design I*

### Engineering 2: Principles (941)
**Grades 9–12:** 2 terms/2 credits

PLTW STEM

***Prerequisite:*** *Engineering 1*

### CTE Internship/ Apprenticeship (9981)
**Grades 11–12:** 2 terms/2 credits or 4 terms/4 credits

***Prerequisite:*** *Any introductory-level, related course*

> *"Taking the Interior Design 1 course was one of the best decisions I ever made. The course offers realistic projects that helped me understand what design really is. I loved the independence we were given while designing as well as the opportunity for students to find their design style. My favorite part of this course was the 'My Dream Home' project. It was an opportunity for students to use their own creativity in designing and help others get familiar with the design software. In the end, I learned so much about design and how it's everywhere in our lives. I would recommend this course to anyone who is interested in the concept of design and the creative work behind it."*
>
> *— Marit Krenner, Class of 2025*

# Course Descriptions: Engineering, Architecture & Design

## Introductory

### Applied Robotics (925)

*Explore the field of Robotics and related careers. Learn to build a robot, design robot parts, and basic programming, and participate in a class obstacle course competition. Students learn through examples, interactive assignments, hands-on projects, individual and group learning, and various challenges. Topics include prototyping, automation, design, programming, fabrication, metals, and plastics. Gain skills in Tetrix robotics system problem-solving techniques. This class is perfect for students interested in Robotics and programming careers.*

### Architectural Design 1 (910)

*Assume the role of an architect in residential home design, development, and construction, and design your own vacation cabin/home. Students learn through sketching, computer-aided design, and modeling, as well as individual and group design challenges, project-based design activities, hands-on labs, and model building. The class will cover architectural styles, design principles, 3D drawing techniques, and computer-aided design (CAD) software. Gain skills in using Autodesk Revit and SketchUp to complete floor, interior, exterior, and site plans. This class is ideal for students interested in developing their design, technical, and problem-solving skills while exploring the exciting world of architectural design.*

### Engineering 1: Concepts (940)

*Learn how engineering designs impact our lives and lead to creative design solutions through hands-on labs and partner/small group projects. This class will cover engineering careers, design principles, prototype development, 3D modeling, product design, bridges and other structures, fluid power, and automation robotics. Develop your communication, collaboration, critical thinking, and problem-solving, and Autodesk Inventor software skills. This class is perfect for students who want to apply engineering concepts to design, create, and test a variety of exciting projects.*

### Interior Design 1 (861)

*Experience all aspects of the interior design process while designing residential spaces. The project-based course gives students the opportunity to creatively design and arrange interior spaces using a web-based design software, incorporate interior architecture into spaces, learn how to design floor plans, understand the psychology of color, explore design styles, custom design interior elements, apply the elements and principles of design in innovative ways, plan and design spaces for clients, and design their dream home that reflects their design aesthetic.*

*Interior Design 1 meets a fine arts graduation requirement.*

## Intermediate

### Architectural Design 2 (911)

*Advance your understanding of architecture. Learn to solve residential and light commercial design challenges. Design and develop your dream home! Students learn through sketching, computer-aided design, and modeling, as well as individual and group design challenges, project-based learning, hands-on labs, and model building. This class will cover architectural design and drafting, history, sketching and 3D modeling (CAD), virtual and augmented reality, sustainable design, career opportunities, structures, construction techniques, and materials. Gain skills in using industry-standard CAD software to create floor plans, interior and exterior elevations, site plans, detail drawings, renderings, and walkthroughs. This class is ideal for students who enjoyed Architectural Design I and are eager to develop advanced technical, design, and problem-solving skills.*

### Engineering 2: Design (IED) (942)

*Dig deep into the engineering design process, applying math, science, and engineering to hands-on projects like designing a new toy or improving an existing product through hands-on labs/projects, independent and group work, using solid modeling software, and creating prototypes with a 3D printer. This class will cover engineering design processes and applications, advanced solid modeling, geometry for design, reverse engineering, 3D printing, and prototype development. Develop Autodesk Inventor software proficiency and skills in product evaluation and refinement, problem-solving, and collaboration. This class is ideal for students who enjoy using their imagination, being creative, working as a team, and having fun while improving their engineering skills.*

### Interior Design 2 (881)

*Advance your understanding of interior design through residential and commercial design projects. Utilizing new fully customizable floor planning software and working with materials, students will engage in both hands-on and interior architecture and design projects such as designing multicultural environments with an international destination hotel project, a tiny house exploring the science of spatial behavior, a commercial space, custom furniture, and explore sustainable materials including flooring, fabrics, and paints to create a healthy, eco-conscious space along with the opportunity to learn about the profession from an interior designer.*

*Interior Design 2 meets a fine arts graduation requirement.*

# Course Descriptions: Engineering, Architecture & Design

## Advanced

### Engineering 2: Civil (CED) (943)

*Learn the key aspects of residential and commercial building, site design, and development. Apply your knowledge to engaging projects, such as designing a Habitat for Humanity home. Repurpose part of WHS for your capstone project. Students learn through independent and small-group projects, hands-on labs, and software simulations. This class covers site development, green technologies, structural design, utilities and services, zoning, soil testing, surveying, cost estimating, building, and safe design protocols. Develop skills in problem-solving, documenting solutions, and Revit solid modeling software. This class is ideal for students interested in understanding how structures function and how all systems of a building work together to meet societal needs.*

### Engineering 2: Principles (POE) (941)

*Explore a broad range of engineering topics and apply what you know to take on challenges like designing a self-powered car through hands-on labs and projects, independent and group work, simulations, demonstrations, process application, and interviewing a professional engineer. This class will cover robotics, statics, ballistics, structural strength, automation, fluid power, mechanisms, kinematics, thermodynamics, automation control, materials science, and electronics. Develop skills in problem-solving, research, project planning, process documentation, material selection, design refinements, and presentation. This class is perfect for students who enjoy hands-on problem-solving that requires creativity, observation, and determination.*

### CTE Internship/Apprenticeship (9981)

*See page 3 for more information.*

*Student Interest Form:*
*https://bit.ly/WHSCTEinternship*



# **Finance & Accounting** Pathway

### Career Ideas

Accounting, banking, finance, investment, entrepreneurship

### Learning Experiences

Class discussion, student projects, real-world problem solving, simulations, independent study, tests, and quizzes

### Additional Perks

Employability skills, AP, college credit, applied math credits

### Related Pathways and Clubs

Business & Entrepreneurship, Computer Science & Information Technology, Marketing

BUSINESS PROFESSIONALS of AMERICA

DECA

## Employment Outlook*

**Accountant and Auditor**
Median Salary = $81,680
10-year growth projection = 5%

**Financial Manager**
Median Salary = $161,700
10-year growth projection = 15%

**Securities and Commodities Sales Agent**
Median Salary = $78,140
10-year growth projection = 3%

**Personal Financial Advisor**
Median Salary = $102,140
10-year growth projection = 10%

**Actuary**
Median Salary = $125,770
10-year growth projection = 22%



# **Finance & Accounting** Courses

All classes meet elective credit requirement

## Introductory

### Accounting 1: Fundamentals (711)

**Grades 9–12:** 1 term/1 credit

APPLIED MATH

### Independent Money Management (855)

**Grades 10–12:** 1 term/1 credit

APPLIED MATH VITAL

## Intermediate

### AP Business & Personal Finance (742)

**Grades 10–12:** 2 terms/2 credits

AP APPLIED MATH NEW

### Financial Algebra (725)

**Grades 11–12:** 2 terms/2 credits

APPLIED MATH

***Prerequisite:*** *Algebra 2, Algebra 2 Extended, or Accelerated Algebra 2*

### Finance 1: Personal Finance (722)

**Grades 10–12:** 1 term/1 credit

APPLIED MATH COLLEGE CREDIT VITAL

## Advanced

### Accounting 2: Analysis & Application (713)

**Grades 11–12:** 2 terms/2 credits

APPLIED MATH

***Prerequisite:*** *Geometry or Accelerated Geometry and Accounting 1*

### AP Macroeconomics (741)

**Grades 10–12:** 1 term/1 credit

AP APPLIED MATH

***Prerequisite:*** *Intermediate Algebra*

### AP Microeconomics (740)

**Grades 10–12:** 1 term/1 credit

AP APPLIED MATH

***Prerequisite:*** *Intermediate Algebra*

### Finance 2: Investment & Wealth (723)

**Grades 10–12:** 1 term/1 credit

APPLIED MATH HYBRID

***Prerequisite:*** *Independent Money Management or Finance 1*

> *"Independent Money Management is a beneficial class that has taught me about the real world. It's a fast-paced class that exposes you to the basics of money management."*
> *— Eva Roberts, Class of 2026*

> *"From freshman year, I knew that I had an interest in business but I didn't know what I wanted to do within the business (pathway)…the accounting and finance classes have been some of my favorites. I used the skills I learned in those classes to get a paid internship as an accounting assistant to the main CFO at a local real estate company."*
> *— Lauren Pippert, Class of 2021*

# Course Descriptions: Finance & Accounting

## Introductory

### Accounting 1: Fundamentals (711)

*This course provides students with the fundamental principles of accounting, including journal entries, postings, and the preparation of financial reports. Students will learn to record transactions, organize financial data, and prepare key financial statements, including the income statement and balance sheet. The course also highlights the practical role of accounting in business operations. Additionally, students will explore various career paths in accounting.*

### Independent Money Management (855)

*Independent Money Management (IMM) equips individuals with essential skills for successful independent living, emphasizing the management of personal resources and aligning financial decisions with personal values and objectives. Students learn through discussions, projects, and group work. The "My Life at 25 Simulation" provides students the opportunity to practice making real-life financial decisions related to housing, transportation, credit, and budgeting. Develop skills in applying income and expense principles, maintaining a budget, and assessing your options. Course topics include setting goals and values, creating a realistic budget, opening and managing checking and savings accounts, saving/investing, preventing identity theft, and building a healthy credit score. This class is perfect for students eager to develop personal financial planning skills for a secure future.*

## Intermediate

### AP Business & Personal Finance (742)

*AP Business with Personal Finance is an introductory, college-level business and personal finance course designed to introduce students to the fundamentals of business, entrepreneurship, marketing, management, and finance. Students will explore how businesses operate through real-world business applications, case studies, and project-based learning. Students will solve problems while also learning the personal financial literacy skills needed for lifelong financial well-being.*

*The course is the equivalent of one semester of an introductory college business course.*

*Students can earn college credit or advanced placement certification as well as an approved industry credential by successfully completing the AP Exam.*

### Financial Algebra (725)

*This course applies algebraic thinking to real-world financial situations. Students explore topics such as investing, banking, credit, taxes, employment, business modeling, and mortgages while developing skills in account management, stock investing, business startup, tax filing, and loan application. Ideal for upperclassmen interested in practical financial math.*

### Finance 1: Personal Finance (722)

*Covers essential money skills: taxes, banking, credit, insurance, investing, and budgeting. Build practical skills for making informed financial decisions—from choosing a career to managing cash, credit, and investments. This course is ideal for students who want to set meaningful financial goals and learn how to achieve them throughout their lives.*

*This course fulfills the Personal Financial Literacy graduation requirement for the Class of 2028 and beyond. Offered as a concurrent enrollment course, it also gives students the opportunity to earn college credit through North Hennepin Community College upon successful completion.*

## Advanced

### Accounting 2: Analysis & Application (713)

*A college-level look at corporate finance and accounting. Learn how companies analyze financial statements and make financial decisions. This class is ideal for individuals seeking a corporate career, particularly those interested in corporate accounting or finance.*

### AP Microeconomics (740)

*Learn how consumers, producers, and governments interact in the economy in this college-level introduction to microeconomics. Through discussions, activities, readings, and AP-style assessments, students explore product markets, pricing and production decisions, wages, consumer behavior, and the government's role in promoting efficiency and equity. Ideal for students planning to take the AP Microeconomics Exam or wanting practical economic skills for life.*

### AP Macroeconomics (741)

*Explore how entire economies function in this college-level introduction to macroeconomics. Students study GDP, inflation, unemployment, fiscal and monetary policy, international economics, and economic growth. The course develops analytical and problem-solving skills that support informed decision-making in the future. Ideal for students preparing for the AP Macroeconomics Exam or wanting practical economic skills for life.*

### Finance 2: Investment & Wealth (723)

*Learn long-term investing strategies using stocks, bonds, and mutual funds. Participate in The Stock Market Game™ and learn strategies to assess risk and build wealth. Perfect for anyone who wants to understand and manage their finances to reach long-term goals, such as buying a home, paying for future education, or investing for retirement.*

# **Graphics & Digital Design** Pathway

### Career Ideas

Graphic designer, creative/art director, UX/UI Designer, product developer, packaging designer, marketing specialist, animator, motion graphics designer, multimedia designer/illustrator, pre-press/press technician, apparel designer

### Learning Experiences

Interactive and hands-on labs, real-life design challenges, project-based learning, collaborative team projects, industry speakers and mentors, product design and development

### Additional Perks

Employability skills, college credit, STEM credit, exposure to industry mentors

### Related Pathways and Clubs

Computer Science & Information Technology, Engineering, Architecture & Design, Marketing

BUSINESS PROFESSIONALS of AMERICA

SkillsUSA

## Employment Outlook*

**Graphic Designer**
Median Salary = $61,300
10-year growth projection = 2%

**Web Developer / Digital Designer**
Median Salary = $95,380
10-year growth projection = 7%

**Special Effects Artist / Animator**
Median Salary = $99,800
10-year growth projection = 2%

**Industrial Engineer**
Median Salary = $101,140
10-year growth projection = 11%

**Advertising / Promotions / Mktg Manager**
Median Salary = $159,660
10-year growth projection = 6%



# **Graphics & Digital Design** Courses

: All classes meet elective credit requirement

## Introductory

### AI for Graphic Design 1 (930)
**Grades 9–12:** 1 term/1 credit

STEM

### Animation 1 (923)
**Grades 9–12:** 1 term/1 credit

STEM

### Exploring Graphic Design SA
**Grades 11–12:** 2 terms/4 credits

CTC

### Graphic Design: Photoshop SA
**Grades 11–12:** 2 terms/4 credits

CTC

### Video Production: Videography SA
**Grades 11–12:** 2 terms/4 credits

CTC

## Intermediate

### AI for Graphic Design 2 (931)
**Grades 11–12:** 2 terms/2 credits

CERTIFICATION COLLEGE CREDIT STEM

***Prerequisite:*** *AI for Graphic Design 1*

### Animation 2 (924)
**Grades 10–12:** 1 term/1 credit

STEM

***Prerequisite:*** *Animation 1*

### Exploring Graphic Design SB
**Grades 11–12:** 2 terms/4 credits

CTC

***Prerequisite:*** *Exploring Graphic Design SA*

### Graphic Design: Illustrator SB
**Grades 11–12:** 2 terms/4 credits

CTC

***Prerequisite:*** *Graphic Design: Photoshop SA*

### Video Production: Editing Techniques SB
**Grades 11–12:** 2 terms/4 credits

CTC

***Prerequisite:*** *Video Production: Videography SA*

## Advanced

### Compass Graphic Communications (9992A + 9992B)
**Grades 11–12:** 2 terms [2 blocks]/ 4 credits

CERTIFICATION COMPASS COLLEGE CREDIT STEM

***Recommended prerequisite:*** *Marketing 1, AI for Graphic Design 1, or Graphic Design 1*

### Yearbook & Journalism (778 & 175)
**Grades 10–12:** 2 terms/2 credits

***Prerequisite:*** *Must submit an application, available at whsyearbook.com*

> *"In the graphics classes, I learned how to use Photoshop and Illustrator. It was a fun class that's good for students with no experience or those that already know a lot."*
> *— Jack Will, Class of 2025*

> *"Applied graphics was one of my all time favorite classes. I loved being able to not only learn Photoshop skills, but use those skills to create amazing things. My favorite part was seeing my final product on an item. It's so cool to see your work come to life off of the computer screen. Definitely a class I will never forget!"*
> *— Madeline Stillman, Class of 2022*

# Course Descriptions: Graphics & Digital Design

## Introductory

### AI for Graphic Design 1 (930)

*Learn how to infuse physical, digital, and print projects with energy and emotion by incorporating graphics, while integrating your design ideas with AI through classroom instruction, hands-on projects, and applying graphics to a variety of products, including apparel and water bottles, while exploring how AI can serve as a valuable research tool to enhance and refine your designs. With the use of AI, students explore typography, color, packaging design, apparel design and creation, screen printing, and dye sublimation. This class is ideal for students interested in exploring the exciting world of graphics and AI, while learning how to transform their ideas into final products.*

### Animation 1 (923)

*Explore the dynamic world of animation through a hands-on learning experience that covers essential concepts and industry tools using Adobe software. This class offers interactive assignments, multimedia projects, and engaging Live Projects that expose students to the fundamentals of animation, 3D modeling, lighting, camera techniques, movement, and rendering. Students will develop key skills in multimedia software, digital drawing on a tablet, and basic HTML coding while enhancing their creativity through real-world projects. Topics include animation concepts, modeling, environments, movement, lighting, cameras, rendering, and additional areas of expertise. Develop skills in multimedia software, learning to draw with the use of a drawing tablet, and light HTML coding. This class is ideal for students aspiring to careers in communications, media, design, or any field where creative visual storytelling is essential, equipping you with the technical skills and artistic understanding to bring ideas to life.*

### Exploring Graphic Design SA

CTC see page 3

### Graphic Design: Photoshop SA

CTC see page 3

### Video Production: Videography SA

CTC see page 3

## Intermediate

### AI for Graphic Design 2 (931)

*Advance your graphic skills. Create your own designs and imprint them onto t-shirts, hoodies, water bottles, socks, and other items. Students learn through classroom instruction and hands-on projects, covering topics such as screen printing, dye sublimation, apparel design, and creation. Develop skills in Adobe Certified Associate (ACA): Visual Communication using Adobe Photoshop CC. This class is ideal for students seeking to further develop their advanced creative, design, and technical skills.*

### Exploring Graphic Design SB

CTC see page 3

### Animation 2 (924)

*Apply your animation knowledge to create fully developed projects. Learn through a variety of engaging methods, including live client projects where you create interactive designs for community display, hands-on projects using multimedia software, individual and group assignments, presentations, diverse research techniques, and sketching with a drawing tablet. Topics include designing projects with lip-sync, advanced walk/run/jump cycles, rigging 2D and 3D characters with bones, forward and inverse kinematics, soft-body dynamics, special effects, motion graphics, visualizations, interactive applications, and drawing tablets. Develop skills in Adobe Animate CC, After Effects, and Photoshop. This class is ideal for students interested in applying their artistic, design, engineering, or inventing skills to software applications.*

### Graphic Design: Illustrator SB

CTC see page 3

### Video Production: Editing Techniques SB

CTC see page 3

## Advanced

### Compass Graphic Communications (9992)

*Compass Graphic Communications is a two-term, interdisciplinary course that integrates college-level composition with advanced graphic design. Scheduled for two blocks per day and earning four WHS credits, this course fulfills an English "A" WPS graduation requirement and offers students the opportunity to earn three college credits through concurrent enrollment in "ART2910: Graphic Design Tools 1" at North Hennepin Community College, transferable to many colleges and universities nationwide.*

*This co-taught, project-based course emphasizes clear communication through writing, speaking, and visual design. Students engage in research-based and informational projects that develop skills in organization, audience awareness, feedback, and professional presentation. Instruction includes focused study of Standard American English and the influence of language on place, with attention to the Dakota and Anishinaabe people of Minnesota.*

*Through hands-on design experiences, students explore creative problem-solving and visual communication using industry-standard tools such as the Adobe Creative Suite. Projects include interactive, graphic, and product design work, often developed in collaboration with local businesses. These authentic partnerships allow students to plan, design, and implement real-world solutions while building technical skills, communication confidence, and a personal creative brand.*

### Yearbook & Journalism (778 & 175)

*Gain insights and skills into the world of Journalism by being part of our yearbook team. Learn topics such as writing within a journalistic framework, desktop publishing, graphic design, photography, publication rights and responsibilities, and marketing and sales through a combination of hands-on projects in class, some out-of-class work, teamwork, and classroom instruction. Develop skills in Adobe Photoshop and InDesign, digital camera photography, and online publishing with yearbook publishing software. This class is ideal for students interested in pursuing careers in marketing communications and journalism.*

# **Health Science** Pathway

**Career Ideas**

Nursing, Social Work, Physician Assistant, Dentistry, Clinical Research, Lab Technician, Biomedical Engineering, Physical Therapy, Alternative Medicine, Pharmacy, Radiology, Public Health, Veterinary Science, Primary Care Physician, Surgeon

**Learning Experiences**

Interactive and hands-on labs, industry speakers, off-campus experiences, simulations, collaborative learning

**Additional Perks**

Certifications, STEM, employability skills, Project Lead the Way (PLTW)

**Related Pathways and Clubs**

Education & Human Services

hosa future health professionals

## Employment Outlook*

**Dental Hygienist**
Median Salary = $94,260
10-year growth projection = 7%

**Medical and Health Services Manager**
Median Salary = $117,960
10-year growth projection = 23%

**Physical Therapist**
Median Salary = $101,020
10-year growth projection = 11%

**Registered Nurse**
Median Salary = $93,600
10-year growth projection = 5%

**Epidemiologist**
Median Salary = $83,980
10-year growth projection = 16%



# **Health Science** Courses

: All classes meet elective credit requirement

## Introductory

### Exploring Health Careers (414)
**Grades 9–12:** 1 term/1 credit

STEM

### Exploring Health & Wellness
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### First Aid, CPR, and Emergency Medical Response
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Introduction to Healthcare
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Medical Terminology (413)
**Grades 10–12:** 1 term/1 credit

STEM

***Prerequisite:*** *English 10 or Honors English 10*

## Intermediate

### Biomedical Biology (415)
**Grade 10:** 2 terms/2 credits

## Advanced

### Certified Nurse Aide (412)
**Grades 11–12:** 2 terms/2 credits

CERTIFICATION STEM

***Prerequisite:*** *Exploring Health Careers, Application, Health Testing; see https://bit.ly/whscnarequirements for more information*

### Medical Interventions (411)
**Grades 11–12:** 2 terms/2 credits

PLTW STEM

***Prerequisite:*** *Biomedical Biology or AP Biology*

### Nursing Assistant
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### CTE Internship/ Apprenticeship (9981)
**Grades 11–12:** 2 terms/2 credits or 4 terms/4 credits

***Prerequisite:*** *Any introductory-level, related course*

> *"The health sciences classes are a great first step to learning about the medical field. It gives you a good exposure without being too challenging."*
> *— Aidric Pfeifer, Class of 2026*

# Course Descriptions: Health Science

## Introductory

### Exploring Health Careers (414)

*This exploratory course introduces students to the wide range of careers available across the five major areas of healthcare. Through hands-on activities, films, guest speakers, research, and reflective writing, students gain an authentic understanding of the technical, intellectual, and interpersonal skills required in healthcare professions. Learning experiences may include reading X-rays, designing a balloon catheter for angioplasty, tracking an infectious disease outbreak, and practicing basic suturing techniques.*

*Students examine therapeutic services, diagnostic services, biotechnology research and development, health informatics, and support services while building essential skills such as communication, empathy, teamwork, critical thinking, creativity, and technical reading. By the end of the course, students will have a clearer understanding of their interests and strengths and how they connect to a variety of healthcare career pathways.*

*This course is well-suited for students who are interested in or considering a future career in healthcare.*

### First Aid, CPR, and Emergency Medical Response

CTC see page 3

### Exploring Health & Wellness

CTC see page 3

### Introduction to Healthcare

CTC see page 3

### Medical Terminology (413)

*Medical Terminology introduces students to the language of healthcare, a foundational skill for careers in health-related fields. Students learn how medical terms are constructed using prefixes, suffixes, word roots, and combining forms, and how to apply this knowledge to determine the meaning of unfamiliar terms. The course also covers singular and plural forms, common medical abbreviations and acronyms, and directional terms related to the human body.*

*Students build understanding through mini-lessons, interactive games, and analysis of real-world healthcare texts such as prescriptions, medical records, and case reports. Emphasis is placed on practical application, helping students develop the ability to comprehend medical language used in clinical settings and future coursework in areas such as anatomy, physiology, pharmacology, and medical procedures.*

*This course is well-suited for students interested in healthcare careers, improving medical literacy, or strengthening their academic and professional vocabulary.*

## Intermediate

### Biomedical Biology (415)

*In this course, students explore concepts of biology and medicine as they assume the roles of various medical professionals to address real-world problems. Over the course of the semester, students are challenged in various scenarios, including investigating a crime scene, diagnosing and proposing treatment to patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.*

*To meet the Biology requirement for graduation, students taking Biomedical Biology will be automatically registered for the one-term class, Ecology and Evolution, to address the ecology and evolution standards. Students may arrange with their counselor to substitute Ecology and Evolution with any of these courses: Wildlife Science (2-terms); Environmental Science (2-terms); AP Environmental Science (2-terms); AP Biology (3-terms)*

## Advanced

### Certified Nurse Aide (412)

*The Certified Nurse Aide (CNA) course prepares students for entry into the healthcare field by developing the knowledge, skills, and professionalism required to provide high-quality patient care. Students learn the role and responsibilities of a Certified Nurse Aide within the healthcare team, with an emphasis on compassionate care, effective communication, ethical practice, and patient confidentiality.*

*Through a combination of classroom instruction, hands-on skills practice in the WHS CNA lab, and supervised off-site clinical experiences, students gain practical experience in essential nursing skills. Topics include anatomy and physiology, infection control, medical terminology, basic nursing care, and common medical conditions. Students develop proficiency in measuring vital signs, assisting with hygiene, mobility, nutrition, elimination, and exercise, responding to emergencies, and meeting the emotional, spiritual, and psychosocial needs of residents, including individuals with dementia.*

*A mandatory 16-hour clinical experience in a long-term care facility is a required component of the course. Students who successfully complete the course are eligible to take the Minnesota CNA Certification Exam.*

*This course is well-suited for students considering a career in healthcare and for those seeking CNA certification and authentic clinical experience in patient-centered care.*

***Visit https://bit.ly/whscnarequirements for more information or scan the QR code.**

# Course Descriptions: Health Science

## Medical Interventions (411)

*In this course, students explore how diseases are prevented, diagnosed, and treated by following the lives of a fictitious family across multiple generations. Through real-world, project-based scenarios, students examine how biomedical interventions have evolved in the past, are applied today, and are being designed for the future. Emphasis is placed on scientific thinking and the engineering design process as students investigate topics such as epidemiology, immunology, genetics, cancer biology, diagnostics, medical devices, pharmacology, and organ transplantation.*

*Students engage in frequent hands-on laboratory experiences, developing practical skills including aseptic technique, bacterial plating, micropipetting, DNA extraction and analysis, gel electrophoresis, bacterial transformation, karyotyping, ELISA analysis, blood and tissue typing, and interpretation of medical data such as audiograms. Collaboration and problem-solving are central to the course, providing authentic insight into careers in biomedical science and related fields.*

*This course is well-suited for students who enjoy scientific inquiry, engineering design challenges, and hands-on learning, as well as those interested in exploring careers in biomedical and health sciences.*

## Nursing Assistant

CTC see page 3

## CTE Internship/Apprenticeship (9981)

See page 3 for more information.

*Student Interest Form: https://bit.ly/WHSCTEinternship*



# **Marketing** Pathway

### Career Ideas

Chief marketing officer, director of marketing, marketing research analyst, marketing manager, social media marketing manager, social media coordinator, social media strategist, event coordinator, social media account manager, content creator, brand strategist, media planner, sales inventory analyst, trend forecaster, marketing consultant, global marketing manager, advertising specialist

### Learning Experiences

Simulations, collaborative projects, presentations, simulations, hands-on marketing proposal, fashion and merchandise displays, employability skills

### Additional Perks

Guest instructors, field trips and industry tours, internship opportunities, college credit, industry certification

### Related Pathways and Clubs

Business & Entrepreneurship, Computer Science & Information Technology, Graphics & Digital Design

BUSINESS PROFESSIONALS of AMERICA

DECA

## Employment Outlook*

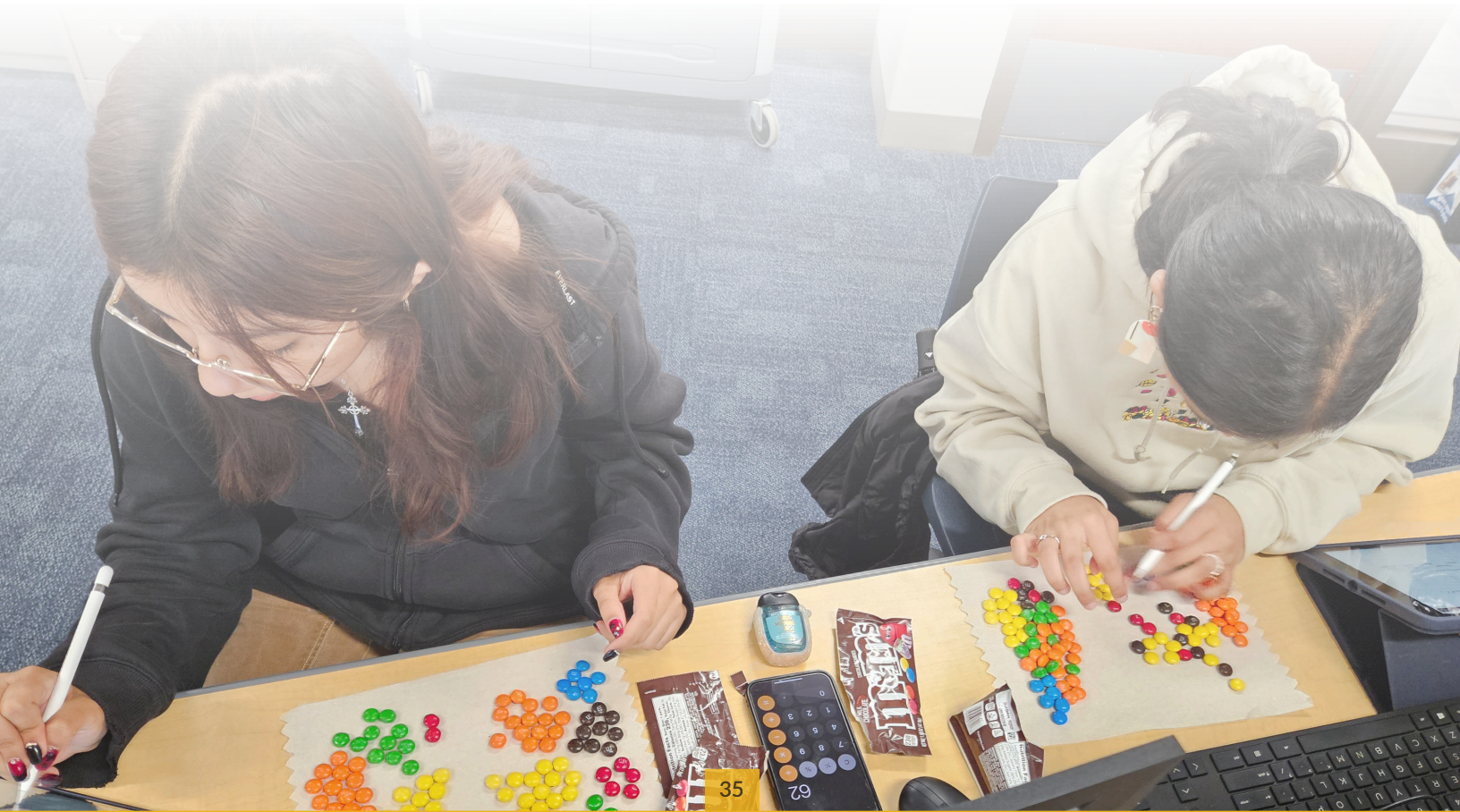
**Advertising / Promotions / Mktg Manager**
Median Salary = $159,660
10-year growth projection = 6%

**Market Research Analyst**
Median Salary = $76,950
10-year growth projection = 7%

**Sales Manager**
Median Salary = $138,060
10-year growth projection = 5%

**Public Relations & Fundraising Manager**
Median Salary = $132,870
10-year growth projection = 5%

**Fashion Designer**
Median Salary = $80,690
10-year growth projection = 2%



# **Marketing** Courses

All classes meet elective credit requirement

| Introductory | Intermediate | Advanced |
|---|---|---|
| **Marketing 1: Fundamentals (732)**<br>**Grades 9–12:** 1 term/1 credit | **Marketing 2: Fashion Merchandising (738)**<br>**Grades 10–12:** 1 term/1 credit<br>***Prerequisite:*** *Marketing 1* | **Marketing 2: Career Applications (737)**<br>**Grades 10–12:** 1 term/1 credit<br>CERTIFICATION HYBRID<br>***Prerequisite:*** *Marketing 1* |
| | **Marketing 2: Social Media (731)**<br>**Grades 10–12:** 1 term/1 credit<br>***Prerequisite:*** *Marketing 1* | |
| | **Marketing 2: Sports & Entertainment (739)**<br>**Grades 10–12:** 1 term/1 credit<br>***Prerequisite:*** *Marketing 1* | |

*"There is no way to grow a business without marketing. (Marketing 1: Fundamentals) helps you learn about your EQ and IQ skills, and become a better people-person."*
*— Ezra Koch, Class of 2027*

*"In marketing classes I learned how to think on my feet and come up with creative solutions to an array of problems."*
*— Elsa Maas, Class of 2021*

# Course Descriptions: Marketing

## Introductory

### Marketing 1: Fundamentals (732)

*Explore core marketing concepts by creating products, promotions, and marketing plans that drive business growth and success. Through projects, simulations, research, and presentations, students gain knowledge of branding, product development, personal selling, promotion, pricing, distribution, and marketing, as well as various career paths in these fields. Skills include designing prototypes, developing promotional materials, preparing marketing plans, and collaborating in teams. Ideal for students who enjoy project-based learning or want to understand how marketing shapes everyday life and careers.*

## Intermediate

### Marketing 2: Fashion Merchandising (738)

*Learn how the fashion industry works and how major brands succeed. Through hands-on projects, research, presentations, and class discussions, students develop a fashion merchandising plan and explore the fields of fashion design, marketing, and promotion. Skills include merchandising, product development, pricing, promotion, distribution, communication, and collaboration. Ideal for students interested in careers such as fashion buyers, coordinators, designers, or managers.*

### Marketing 2: Social Media (731)

*Learn how to develop strategic social media marketing plans through interactive projects, research, presentations, and class discussions. Students explore building a social media presence, creating platform-specific content, executing ad campaigns, and understanding digital marketing careers, as well as traditional advertising channels. Ideal for students interested in business and marketing.*

### Marketing 2: Sports & Entertainment (739)

*Learn key marketing concepts in sports, entertainment, movies, television, and music through hands-on projects, research, and presentations. Topics include the history of sports and entertainment marketing, radio/TV product creation, and event promotion. Students build skills in presentation and marketing applications. Ideal for those with basic marketing knowledge who want to expand into sports and entertainment marketing.*

## Advanced

### Marketing 2: Career Applications (737)

*Career Applications builds on Marketing 1: Fundamentals and focuses on marketing research and career skills. Students work with local businesses through hands-on research projects, site visits, guest speakers, simulations, and presentations. Topics include research design, qualitative and quantitative data, decision-making, ethics, and social responsibility. Students gain skills in marketing analysis, research methods, presentations, and employability. Ideal for students who completed Marketing 1: Fundamentals and want to explore marketing, research, or business careers.*



# **Transportation, Robotics & Aviation Technology** Pathway

**Career Ideas**

Automotive and power equipment technician, mechanic, sales, management, manufacturing, engineering and design; parts management and sales; truck drivers and machine operators; automotive safety, vehicle inspections, quality safety engineer; business owners and entrepreneurs in automotive, motor sports, lawn and garden equipment, car rentals and a variety of other sectors.

**Learning Experiences**

Hands-on projects and skill development

**Additional Perks**

Employability skills

**Related Pathways and Clubs**

Business & Entrepreneurship, Engineering, Architecture & Design, Marketing

SkillsUSA®

## Employment Outlook*

**Industrial Machinery Mechanic**
Median Salary = $63,510
10-year growth projection = 13%

**Automotive Body & Glass Repairer**
Median Salary = $50,680
10-year growth projection = 2%

**Heavy Truck / Tractor-Trailer Driver**
Median Salary = $57,440
10-year growth projection = 4%

**Diesel Service Technician / Mechanic**
Median Salary = $60,640
10-year growth projection = 2%

**Small Engine Mechanic**
Median Salary = $68,240
10-year growth projection = 4%



# **Transportation, Robotics & Aviation Technology** Courses

All classes meet elective credit requirement

## Introductory

### Auto Body Repair SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Automotive Technology SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Aviation & Aerospace (223)
**Grades 10–12:** 1 terms/1 credit

NEW STEM

### Drone Operations + Aviation Basics SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Outdoor Power Sports SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

### Spark: Introduction to Basic Electronics SA
**Grades 11–12:** 2 terms/4 credits

CTC STEM

## Intermediate

### Analog & Digital Circuits
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Auto Body Repair*

### Auto Body Repair SB
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Auto Body Repair SA*

### Automotive Technology SB
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Automotive Technology SA*

### Drone Enhanced Operations - Mapping, Media, and More SB
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Drones: Operations & Aviation Basics SA*

### Outdoor Power Sports SB
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Outdoor Power Sports SA*

## Advanced

### Advanced Auto Body Repair
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Auto Body Repair SB*

### Advanced Outdoor Power Sports
**Grades 11–12:** 2 terms/4 credits

CTC STEM

***Prerequisite:*** *Outdoor Power Sports SB*

*Courses are held at Hennepin Technical College (Career Tech Center) in Eden Prairie. See page 3 and https://bit.ly/whsCTCcatalog*

287 CAREER & TECH CENTER

### Aviation & Aerospace 1 (223)
This new course studies how human innovation transformed aviation, global connectivity, and modern society. In this course, students explore the history of aviation, epic moments, and breakthroughs that revolutionized travel, technology, global conflict, and everyday life. Along the way, students will successfully demonstrate aviation skills, including iPad-based flight simulation, flight planning, navigation, and the application of scientific reasoning and risk assessment in modern-day aviation. If you've ever wondered what it takes to be part of the flight team or just sharpen your critical thinking, this class is your runway.

## **Join us!** Build career competence and confidence.

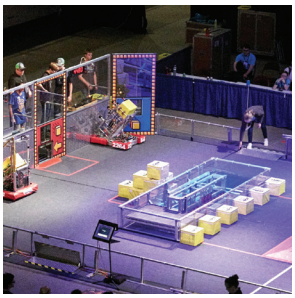
Build relationships with classmates who share your interests. Learn to work and compete as a team. Develop critical professional skills. And even earn a letter!

### Business Professionals of America BPA



*For students pursuing careers in business management, information technology, finance, accounting, office administration, and other business-related career fields.*

### Robotics



*For students interested in science, technology, math, and engineering careers.*

### DECA




*For emerging leaders in the areas of marketing, entrepreneurialism, finance, hospitality, and management.*

### SkillsUSA



*For students interested in trade, technical, and skilled service professions, including health occupations.*

### HOSA Future Health Professionals



*For students who are preparing to go into the healthcare field.*

### Super Mileage Team




*For students interested in careers related to automotive engineering, and car design.*

### Minnesota Technical Honor Society

*Dedicated to fostering enthusiasm for technical scholarship, promoting service in technical industries, instilling leadership qualities, and nurturing ethical decision making related to technology among secondary students in Minnesota.*

**Details at wayzataschools.org/activities**

# Jump start your future.

Career Pathways courses offer many opportunities for acquiring the credits and certifications you need to meet your academic and professional goals. Colorful indicators on the course grid for each pathway highlight those opportunities. See the details below.

## ADVANCED HIGH SCHOOL CREDITS

| Type of credit | Taught by | Consider if | Cost & Benefits |
|---|---|---|---|
| APPLIED MATH | WHS instructors | You want a fourth year math credit from WHS. | Free |
| STEM | WHS instructors | You want a fourth year science or math credit from WHS. | Free |

## COLLEGE CREDITS

### AP Advanced Placement

| Testing Partner | Taught by | Consider if | Cost & Benefits |
|---|---|---|---|
| AP is a College Board program. | WHS instructors who have AP licensure | You enjoy academic rigor and test well. | ~$100 charge for AP Test*<br>Your high school transcript demonstrates a commitment to academic rigor.<br>If you take and pass the test your college **may** give you credit for the course on your college transcript. |

*Note rates may change

*continued on next page*

## COLLEGE CREDIT Dual Credit Enrollment

| Partner Schools | Taught by | Consider if | Cost & Benefits |
|---|---|---|---|
| Century College<br>Hennepin Technical College<br>Minnesota State University, Mankato<br>North Hennepin Community College | WHS instructors | You want to get a start on a college degree and save money. | Free<br>When you successfully complete the course you get both high school credit and transcripted college credit from the partnering postsecondary institution. |

## Post Secondary Enrollment Options (PSEO)

| Partner Schools* | Taught by | Consider if | Cost & Benefits |
|---|---|---|---|
| Anoka Ramsey Community College<br>Bethel University<br>Crown College<br>Hamline University<br>Hennepin Technical College —Eden Prairie<br>Hennepin Technical College —Brooklyn Park<br>Minneapolis Community & Technical College<br>North Hennepin Community College<br>Normandale Community College<br>University of Northwestern — St. Paul<br>University of Minnesota — Twin Cities | College professors on their college campus | You enjoy academic rigors and want to experience life on a college campus. | Free<br>When you successfully complete the course you get both high school credit and transcripted college credit from the partnering postsecondary institution. |

**PSEO means you will apply for, be admitted to, and attend classes at one of these colleges or universities.*

## PLTW Project Lead the Way

| Partner Schools | Taught by | Consider if | Cost & Benefits |
|---|---|---|---|
| St. Cloud State University | WHS instructors with PLTW licensure | You enjoy hands-on learning and academic rigor. | $100 for the PLTW Test*<br>When you successfully complete the course you get both high school credit and transcripted college credit from the partnering postsecondary institution. |

*Note rates may change. Financial assistance may be available.

# INDUSTRY CERTIFICATIONS

## CERTIFICATION

| Testing Partners | Taught by | Consider if | Cost & Benefits |
|---|---|---|---|
| Adobe<br>Career Safe<br>Cisco<br>College Placement Test<br>CompTIA<br>Precision Exams | WHS instructors | You want to pursue work in a particular industry before or while pursuing higher education. | Cost varies<br>Sit for an exam<br>Enhanced resume<br>Hiring advantage<br>Higher salary |

# PLANNING / NOTES PAGE

| Freshman Year | Term 1 | Term 2 | Term 3 | Term 4 |
|---|---|---|---|---|
| Block 1 | | | | |
| Block 2 | | | | |
| Block 3 | | | | |
| Block 4 | | | | |

| Sophomore Year | Term 1 | Term 2 | Term 3 | Term 4 |
|---|---|---|---|---|
| Block 1 | | | | |
| Block 2 | | | | |
| Block 3 | | | | |
| Block 4 | | | | |

| Junior Year | Term 1 | Term 2 | Term 3 | Term 4 |
|---|---|---|---|---|
| Block 1 | | | | |
| Block 2 | | | | |
| Block 3 | | | | |
| Block 4 | | | | |

| Senior Year | Term 1 | Term 2 | Term 3 | Term 4 |
|---|---|---|---|---|
| Block 1 | | | | |
| Block 2 | | | | |
| Block 3 | | | | |
| Block 4 | | | | |

**Notes:**

WAYZATA PUBLIC SCHOOLS

CTE

CAREER & TECHNICAL EDUCATION

