

FOLEY HIGH SCHOOL

CAREER



DECISIONS

FUTURE CHOICES

2024 - 2025



Until now your parents and teachers made most of your choices for you. In the next few years you will be making many of the choices that will shape your future. Some of the most important decisions you'll ever make will involve your career.

With 9th grade and high school ahead of you, this is a good time to start thinking about the kinds of classes you should take to get the most out of high school and prepare for what you want to do after high school. Some important choices you will make are the classes you take in the next four years. Graduation may seem far off. But the choices you make between now and then will prepare you for your future. Students need to consider courses for career exploration as well as skill development.

You may not know what you want to do after high school. Maybe you haven't thought about it yet. Will you get a job? Continue your education? Join the military?

The following pages list occupations in nineteen specific fields and the courses available related to the careers in those fields at **Foley High School**.



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AGRICULTURE / FORESTRY / HORTICULTURE

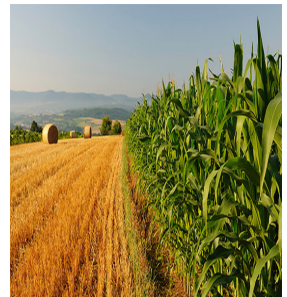
1

Persons choosing a career in the agricultural and forestry fields plan and work towards increasing the production from farms, forests, streams and lakes. Jobs in this field include:

Fish and Game Managers/Wardens	Farm Equipment Mechanic
Agronomists	Agribusiness Marketers/Managers
Food and Soil Chemists/Scientists	Foresters/Forestry Technicians
Hazardous Waste Technician	Artificial Inseminator
Wildlife Manager	Landscape Designers/Contractors
Floral Designers/Florists	Animal Nutritionists/Scientists
Agricultural Economists	Farmers/General Farm Hands
Dairy Plant Worker	Greenhouse Workers
County Agricultural Agents	Air Quality Worker
Conservation Occupations	Taxidermists
Park Naturalist/Rangers	Water Quality Technicians
Environmentalist	Feed Salesperson
Pesticide Applicator	Poultry Hatchery Worker
Vocational Teachers	Herdsman
Groundskeeper	

Career preparation may include the following high school courses:

Introduction to Agriculture	Chemistry
Agriscience/Biotechnology	Career Exploration
Natural Resource Management	Home Repair and Maintenance
Horticulture & Landscape	Agriculture Building Construction
Agribusiness Management	Kitchen Chemistry
Supervised Occupational Experience	Minnesota Wildlife
Environmental Biology	Applied Animal Science
Biology	Small Animal Veterinary Science
Floriculture and Greenhouse Operations	Zoology
Stars and Storms	College Chemistry



Related courses include:

Small Gas Engines	Power Mechanics
Intro to Business	Business Law
Electricity	Engineering Drawing
Architectural Drafting	Accounting
Personal Finance	Intro to Auto Repair
Marketing 1	Advanced Auto Repair

High school clubs also known as Professional Youth Organizations provide career exploration and social development:

FFA (Future Farmers of America)	Conservation Club
Fishing Club	Spanish Club
Skills USA	Vex Robotics

EMPLOYMENT OUTLOOK

Hot job tracks to consider include pollution fighter, computer mapper, water resource manager and environmental technician. Pressure on industries to use environmentally-friendly production techniques and expanded use of GIS-Geographical Information Systems software give these career areas their potential. Job openings in agricultural services will arise from the need to replace workers who age or retire. Employment growth in farm-related agricultural services--crop services, soil preparation services, farm labor and management services, and livestock services.

BUSINESS ADMINISTRATION

2

Individuals choosing a career in the business administration field provide the needed support to keep a business in operation. You may be keeping track of expenses and incomes, managing financial activities, establishing policies, making plans, determining staffing requirements and directing the activities of businesses, government agencies and other organizations. Areas in this field include:

Administrative Detail

General Managers
Purchasing Managers
Computer Operator
Food and Lodging Managers
Credit Manager
Office Manager
Personnel Manager
Management Analyst
Systems Analyst
Title Examiner
Human Resources

Financial Detail

Accountant
Auditor
Claims Examiner
Financial Manager
Loan Auditor
Insurance Underwriter
Post Office Clerk
Real Estate Appraiser
Bank Teller
Insurance Adjuster

Mathematical Detail

Accounting Clerk
Bookkeeper
Statistical Clerk

Related

Business Teacher
Vocational Teacher
Project Managers (Business)

Career preparation may include the following high school courses:

Microsoft Office Pro Certification	College Credit Public Speaking
Desktop Publishing for Business and Admin.	College Credit English
Intro to Business	Personal Finance
Accounting 1&2	Natural Resource Management
Business Law	Career Exploration
Intro. to Agriculture	Floriculture & Greenhouse
Marketing 1	Operations
Mathematics	Marketing - School Store
Agribusiness Management	
Statistics	



High school clubs and activities provide career exploration and social development:

Speech team	Student Council	Spanish Club	Math League
FFA	MHS		Knowledge Bowl
BBBS	Communicating Common Ground		

EMPLOYMENT OUTLOOK

In these occupations, workers are involved in day-to-day activities of running a business or with matters related to money. There will be job opportunities in business, management, and administration in the future. Most of the opportunities will be in management. New management jobs will be added. Other openings will be the result of workers retiring or leaving their jobs. To qualify for these higher paying jobs, you will probably have to attend college and have several years of work experience. The increased use of technology in the storage and use of information will mean fewer jobs due to businesses needing fewer employees to do support work. Business owners will be able to do their own business analysis using the latest software programs.

Occupations in Minnesota with projected good to very good availability of jobs include financial manager, systems analysts, insurance adjusters, loan officers, accountants/auditors and food and lodging managers.

Persons choosing a career in child development, guidance, or education concentrate their skills on human development in personal care institutions, agencies and schools. Jobs in this field include:

Child Care Worker/Instructor	Family Welfare/Caseworkers
Preschool Teacher	Family/Marriage Counselors
Child Care Manager/Administrator	Crisis Assistance
Child Care Attendant/Aide	Child Psychologists
Infant and Toddler Care Worker	Sociologists
Family Day Care Providers	Guidance Counselor/Career Planner
Teacher Aides/Education Assistants	Special Education
Parent Educator	Early Childhood Teachers
High School Teachers	Elementary Teachers
University Professors/Administrative	Instructional Coordinators
Behavioral Specialist	Social Worker

Career preparation may include the following high school courses:

Psychology	Business Law
Sociology	Intro to Art
Psychology of the Child	Choir/Band
Microsoft Office Pro Certification	Desktop Publishing for
Unified Sports	Business and Communication

Related courses include:

Crafts 1&2	College Credit Public Speaking
Career Exploration	College Credit English
Spanish	Physical Education classes
Intro to Business	Aquatics/Lifeguard Training
Intro to Guitar	Guitar 2



EMPLOYMENT OUTLOOK

These workers share information through teaching and distribution. Overall employment in educational instruction and library occupations is projected to grow about as fast as the average for all occupations from 2022 to 2032. About 857,600 openings are projected each year, on average, in these occupations due to employment growth and the need to replace workers. Most of the openings in education will result from workers and educators retiring. In the future, there may not be enough teachers graduating from college to fill job openings, especially in math, science, and special education. Jobs in human services are expected to grow due to expanded services for the elderly. In addition, the demand for childcare services is increasing. Service for the mentally ill and individuals with disabilities have also been increasing.

CONSTRUCTION

4

Persons choosing a career in the construction field utilize their skills in the handling, assembling, and erecting homes, office buildings, and other structures. Jobs in their field include:

Carpenters	Operating Engineers	Roofers
Tile Setters	Sheet Metal Workers	Electricians
Paper Hangers	Cabinet Makers	Floor Coverers
Painters	Drafters	Engineers
Cement Masons	Insulation Installer	Architects
Bricklayers	Drywall Installer	Surveyors
Pipefitters-Steamfitters	Plasterers	Vocational Teachers
Structural Ironworkers	Ironworkers	Project Managers
Construction Laborers	Plumbers	Civil Engineer
Elevator Constructors	Glaziers	

Career preparation may include the following high school courses:

Beginning Woodworking	Advanced Architectural Technologies
Basic Cabinet Construction	Robotics & Engineering
Advanced Woodworking	Home Repair and Maintenance
Architectural Drafting	Advanced Engineering Design and
Ag Building Construction	Manufacturing
Engineering Drawing	Exploration of Technology & Engineering
Electricity	Desktop Publishing for Business and Communication
Microsoft Office Pro Certification	

Related courses include:

Welding & Fabricating	College & Career Readiness Math
Business Law	Advanced Machining and Foundry
Intro to Business	Advanced Metals
Machining and Sheet Metal	Intro. to Agriculture
Intro to Auto Repair	Marketing 1
Advanced Auto Repair	

In addition to the above courses, Engineering and Architectural students may include:

Trigonometry
Algebra 2 Acc.
AP Calculus
Calculus
Physics



EMPLOYMENT OUTLOOK

If you are interested in working with construction, you will most likely find a job. Workers in these occupations use a variety of resources to build and repair roads, homes, and other structures. The job openings will vary with the different occupations. Many workers leave their jobs because of the hard physical work and uncomfortable working conditions. There will be more jobs in occupations that require skills that are technical and need more training. This includes bricklayers, stonemasons, electricians, sheet metal workers, and heating and cooling system mechanics. Employment in landscaping and horticultural services will increase. Minnesota has a great resource for students for state information on construction employment visit: constructioncareers.org.

ELECTRICITY / ELECTRONICS

5

Persons choosing a career in electricity and electronics fields utilize their skills and knowledge of electricity in the generation, distribution, and flow of electrical power as well as the operating, installing, and maintaining electrical and electrical and electronic products. Jobs in this field include:

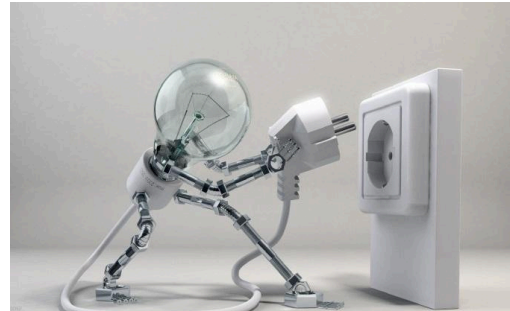
Line Installers and Repairers	Electricians
Broadcast Technicians	Radio/TV/VCR repair
Computer Service Technicians	Computer Programmer
Computer Sales	Robotic Technician
Electrical Engineer/Electronic Technician	Electrical Contractors
Amusement Game Repair/Maintenance	Small Appliance Repair
Vending Machine Repair/Maintenance	Power Plant Workers
Video Game Repair/Maintenance	Electric Motor Repair
Vocational Teacher	Electric Sign Installer
Clean Energy Technicians	Aerospace Engineer

Career preparation may include the following high school courses:

Architectural Drafting	Exploration of Technology & Engineering
Advanced Architectural Technology	Power Mechanics
Home Repair and Maintenance	Engineering Drawing
Welding and Fabricating	Electricity
Robotics & Engineering	Small Gas Engines
Microsoft Office Pro Certification	Intro to Agriculture
Intro to Auto Repair	Intro to Business
Advanced Auto Repair	Desktop Publishing for Business and Communication

Related courses include:

Advanced Engineering Design and Manufacturing
Trigonometry
Physics
AP Calculus
Machining and Sheet Metal
Advanced Machining & Foundry Practices
Advanced Metals
Agriscience and Biotechnology
Statistics
Stars and Storms



EMPLOYMENT OUTLOOK

Hot job tracks include computer engineer, software engineer, electronics specialist, wireless technician, computer security expert, electrician, network architect, computer control maker, and commercial wiring specialist. Increasing use of computers throughout the economy, the need to integrate software, almost every appliance and tool having electrical components, and service expectations. Some employment growth is expected as companies continue to utilize the expertise of engineers for projects involving electronic devices and systems. These engineers are expected to have key roles in developing sophisticated consumer electronics, solar arrays, semiconductors, and communications technologies. **Occupations in Minnesota** with projected good to excellent job availability includes electrical engineer, a systems analyst, computer engineers.

Persons choosing a career in the English and languages field use their skills to communicate thoughts and ideas to others. Jobs in this field include:

Speech Writer	TV News editor
Interpreter	Translator
Lecturer	Copyright Editor
Diplomat	Foreign Correspondent
Reporter	TV Script Writer
Poet	TV Producer
Author	Historian
Radio/TV Announcer	Editorial writer
Proofreader	Editor
Book Critic	Film Librarian
Technical Writer	Sports Writer
High School and College Teacher	Media Specialist (Librarian)
Camera/Production Operators	Public Relations



Career preparation may include the following high school courses:

Mythology	Marketing - School Store
College Credit English	Spanish 1, 2, 3, 4
College Credit Public Speaking	Technical Images
Media Arts	Graphic Arts
Creative Writing	Art History
Marketing 1	Drawing

Related courses include:

Technical Images	Psychology
Business Law	Sociology
Intro to Business	Microsoft Office Pro Certification
Career Exploration	Desktop Publishing for Business and Communication
Psychology of the Child	

High school clubs and activities provide career exploration and social development.

School Yearbook	Student Council
Speech Team	Drama
Spanish Club	MHS
Knowledge Bowl	Unified Club

EMPLOYMENT OUTLOOK

These workers use words and images to convey information and ideas. Hot job tracks include TV news producer, interactive specialists, online content developer, online marketer, and circulation director. More media coverage of companies' legal or political problems, a rapidly expanding market for convergent technology, many new electronic newspapers, magazines, and newsletters give these career areas their potential. **Occupations in Minnesota** with projected good to excellent job availability includes media specialists, producers, directors, technical writers, media and communication equipment workers (such as broadcast technicians, film and video editors, and photographers).



Persons choosing a career in the fine arts field use their skills to entertain others and communicate thoughts and ideas. Jobs in this cluster include:

Musician	Drama Coach	Costume Designer
Art Historian	Artist	Band Teacher
Music Librarian	Animator	Orchestral Conductor
Casting Director	Voice Actor	Music Arranger/Composer
Makeup Artist	Sculptor	TV/Radio Broadcaster
Art Critic	Music Critic	High School and College Teacher
Digital Marketing	Graphic Designer	Video Game Design
Fashion Design	Photography	Film Editors

Career preparation may include the following high school courses:

Introduction to Art	Sound Effect	Art History
Ceramics & Sculpture 1&2	Intro to Guitar	Mythology
Painting	College Credit English	Wind Ensemble
Drawing	College Speech	
Varsity Choir	Media Arts	
Varsity Band	Guitar 2	



Related courses and activities include:

Graphic Arts	Career Exploration
Technical Images	Exploration of Technology & Engineering
Engineering Drawing	Home Repair and Maintenance
Architectural Drawing	Unified Sports
Microsoft Office Pro Certification	
Desktop Publishing for Business and Communication	

High school clubs and activities provide social development and career exploration.

Marching Band	Art Club
Jazz Band	Unified Club
Perfect Cadence	BBBS
Penn Street Singers	MHS
Speech team	Spanish Club
Yearbook	
Knowledge Bowl	
Drama Club	
Student Council	
Communicating Common Ground	



EMPLOYMENT OUTLOOK

Workers in this group create products and concepts that have practical or aesthetic purposes. Hot job tracks include animators, digital editor, digital marketing, graphic design, computer animator, and digital animator. The popularity of animated TV and movies, video games, and the internet, along with the continuing needs of films, television shows, video games and advertisements give these career areas their potential. **Occupations in Minnesota** in the fine arts are limited in availability and the competition is very strong. Developing an excellent portfolio is essential.

Persons choosing a career in the food and nutrition field utilize their skills in planning, preparing, and serving food on a quantity basis. Jobs in this field include:

Nutritionists
Chefs
Advertising
Kitchen Helpers
Flight Attendants
Bakers
Fisheries-Commercial
Dishwashers
Dieticians
Cooks
Food Photography
Health Coach

Food Display
Public Relations
Short Order Cooks
Waiters and Waitresses
Meat Cutters
Cannery Workers
Education
Hotel/Restaurant Management
Research/Product Development
Vocational and High School Teachers
Food Safety Auditor
Food Science

Career preparation may include the following high school courses:

Advance Health & Performance
Intro to Business
Natural Resource Management
Introduction to Agriculture
Accounting 1
Agriscience and Biotechnology
Business Law
Microsoft Office Pro Certification
Marketing 1

Horticulture and Landscaping
Applied Animal Science
Career Exploration
Shape Up Fitness
Desktop Publishing for Business and Communication
Kitchen Chemistry
Marketing - School Store

Related courses include:

Graphic Arts
Technical Images
Agriculture Mechanics and Engineering Technology
Floriculture and Greenhouse Operations
Agribusiness Management
Psychology of the Child



In addition to the above courses, students interested in nutrition and education may include:

Biology	Human Biology	SAPQR
Chemistry	Spanish	Psychology
Unified Sports/Club	AP Chemistry	

EMPLOYMENT OUTLOOK

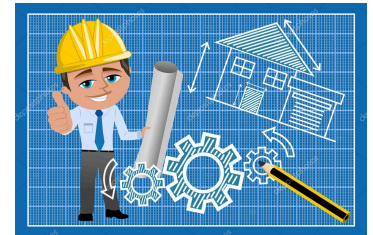
These workers make and provide food and drink to customers. Hot job tracks include food service manager, menu consultant and specialty foods franchise. The food service industry, now taking about \$.44 of every food dollar, gives these career areas their potential. **Occupations in Minnesota** with projected good to excellent job availability include franchise owners, cooks, bakers, food counter workers, food preparation workers, fast food/short order cooks, and meat/poultry/fish cutters.

Persons choosing a career in the graphic arts field possess a variety of specialized skills which they use to design and print graphic materials. Jobs in this field include:

Bindery Workers	Photographers
Commercial Artists	Proofreaders
Advertising Copywriters	Lithographers
Film Processing Technicians	Photoengravers
Typesetters	Technical Writers
Press Technicians	Layout Artists
Graphic Sales and Customer Support	Graphic Designers
Press Assistants	Illustrators
Color Scanner Operators	Keyliners
Administrative Positions	Copywriters
Vocational and High School Teachers	Die cutters

Career preparation may include the following high school courses:

Introduction to Art	Drawing
Graphic Arts	Art History
Technical Images	Media Arts
Microsoft Office Pro Certification	
Desktop Publishing for Business and Communication	

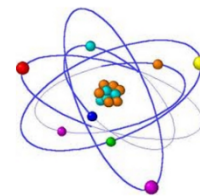


Related courses include:

Architectural Drafting	Intro to Business
Engineering Drawing	Ceramics and Sculpture 1&2
Accounting	Advanced Architectural Technologies
Crafts 1&2	Advanced Engineering Design and Manufacturing
Painting	Advanced Machining and Foundry Practices
Creative Writing	Exploration of Technology & Engineering

Students interested in administrative and supervisory positions may also include:

Chemistry
AP Chemistry
Physics
Marketing 1
Marketing - School Store
Sports and Entertainment Marketing



EMPLOYMENT OUTLOOK

Workers in this group create products and concepts that have practical or aesthetic purposes. Hot job tracks include media planner, online content developer, and circulation director. Technology greatly increasing the number of advertising mediums gives these career areas their potential. **Occupations in Minnesota** with projected good to excellent job availability include printing machine operators and tenders, and electronic pagination system operators.

Persons choosing a career in the housing occupations field utilize their skills in the areas of design, care, and management of single and multiple family dwellings as well as commercial and institutional buildings. Jobs in this field include:

Real Estate Appraiser	Drafter
Architect	Electrical Engineer
Architectural Rendering	Land Developer
City Planning and Zoning	Property Manager/Project Manager
Civil Engineer	Real Estate Agent or Broker
Mechanical Engineer	Sales Representatives
Mortgage Risk Financer	Claims Examiner
Structural Engineer	Carpet Installer
Interior Designer	Furniture Retail Sales/Construction/Design
Housing Manager	Vocational and High School Teachers
Landscape Architect	Technical Designer

Career preparation may include the following high school courses:

Electricity	Robotics & Engineering
Engineering Drawing	Horticulture and Landscaping
Welding	Architectural Drafting
Floriculture	Intro. to Agriculture
Microsoft Office Pro Certification	
Desktop Publishing for Business and Communication	

Related courses include:

Business Law	Advanced Architectural Technologies
Accounting	Agriculture Building Construction
Marketing 1	Agribusiness Management
Intro to Business	Advanced Engineering and Design and Manufacturing
Textiles 1&2	Sports and Entertainment Marketing
Drawing	Technical Images
Advanced Auto Repair	Exploration of Technology & Engineering
Beginning Woods	Intro to Auto Repair
Advanced Woods	Home Repair and Maintenance
Basic Cabinet Construction	



In addition to the above courses, engineering students might include:

- Advanced Math
- Physics
- Chemistry
- AP Chemistry
- College Chemistry
- Statistics



EMPLOYMENT OUTLOOK

As the demand for renovation projects increases, homeowners and companies are expected to need services provided by interior designers to help create safe and functional spaces. A greater focus on building codes, as well as the need to design spaces that meet accessibility standards, may also help to create jobs for these workers. Hot job tracks include high tech home office specialists. **Occupations in Minnesota** with projected good to excellent job availability includes insurance adjuster, drafter, painter and paperhanger, and civil engineer.

Persons choosing a career in the sales field utilize their skills in selling, management, consumer services, purchasing commodities and property, and advertising products and services. Jobs in this field include:

Securities/Financial Sales Agents	Digital Community Manager	Buyers/Retail and Wholesale
Sales Representatives – Retail	Insurance Agents	Public Relations
Sales Representatives – Wholesale	Auto Salespersons	Public Relation Manager
Sales Representatives – Manufacturing	Retail Store Managers	Digital Community Manager
Sales Representatives – Advertising	Farm Equipment Sales	Web Content Specialist
Buyer-Manufacturer's Agent	Sales Engineers	SEO Specialist
Technical sales representatives	Computer Sales	Market Research Analyst
Transportation Management	Real Estate Agents	Marketing Executive
Logistics/Transportation Sales	Corporate Managers	Digital Marketing Coordinator
Finance and Credit Managers	Travel Agent	Content Marketing Manager
Account Executive – Advertising	Route Drivers	Media Planner
Vocational and high school teachers	Market Research Analyst	Wireless Sales
Advertising	Pharmaceutical Sales	Sports Marketer
Brand Manager	Corporate Sales	Software Sales

Career preparation may include the following high school courses:

Floriculture	Creative Writing
Marketing - School Store	Introduction to Agriculture
Marketing 1	Microsoft Office Pro Certification
Accounting 1&2	Natural Resource Management
Introduction to Art	Agribusiness Management
Intro to Business	Sports and Entertainment Marketing
Desktop Publishing for Business and Communication	

Related courses include:

Business Law	Small Gas Engines
Drawing	Spanish
Psychology	College Credit Public Speaking
Sociology	Agriscience and Biotechnology
Ag Building Construction	Psychology of the Child
Personal Finance	Statistics
Power Mechanics	



High School clubs and activities provide career exploration, competitive activities and social development:

Speech Team	Unified Club	Student Council
MHS	Drama	FFA
Art Club	Spanish Club	

EMPLOYMENT OUTLOOK

Revenue in the eCommerce Market (money spent online) is projected to show an annual growth rate of 9.83%. Salespeople are needed for new phone types and mobile fax machines. Sporting events, teams and arenas aggressively sell sponsorships, and the technology increasing the number of advertising mediums give these careers their potential. **Occupations in Minnesota** with projected good to excellent job availability include technical sales, retail store sales, sales engineers, fundraisers, market research analysts, marketing managers, real estate management, cashiers, retail store stock clerks.

Persons choosing a career in the math field provide services or conduct research in almost every industry.

Jobs in this cluster include:

Accountant/auditor	Air traffic controller
Financial manager	Insurance adjuster
Actuaries	Economist
Surveyor	Navigator
Electronic technician	Air analyst
Civil engineer	Computer programmer
Safety engineer	Medical technologist/technician
Aerospace engineer	Mathematician
Electrical engineer	Operations research analyst
Nuclear engineer	Cost estimator, manufacturing
Construction engineer	Technical sales representative
Computer systems analyst	High school and college teacher
Financial Planner	Investment/Business Analyst
Economist	Information Systems
Statistician	Data Analysis



Career preparation may include the following high school courses:

Algebra	Calculus	Algebra 2 Accel
Geometry	Intro to Business	Trigonometry
AP Calculus	Personal Finance	Desktop Publishing for Business and
Statistics	Microsoft Office Pro Certification	Communication

Related courses include:

Accounting 1&2	Human Biology
Business Law	Advanced Architectural Technologies
Psychology	Advanced Engineering Design and Manufacturing
Personal Finance	Electricity
Marketing - School Store	Home Repair and Maintenance
Marketing 1	Advanced Health & Performance
Spanish	Robotics, Engineering and Electronics
Chemistry	Agribusiness Management
AP Chemistry	Engineering Drawing
College Chemistry	Career Exploration
Physics	Agriscience and Biotechnology
Environmental Biology	Natural Resource Management
Forensic Science	Floriculture and Greenhouse Operations
Architectural Drawing	Stars and Storms

High school clubs provide career exploration, competitive activities and social development:

Math League Knowledge Bowl FFA MHS Unified Club Skills USA

EMPLOYMENT OUTLOOK

Workers in this group use arithmetic and apply advanced techniques to make calculations, analyze data, and solve problems. Hot job tracks include business valuator, CPA consultant, forensic accountant: fraud detection, environmental account, math teacher, computer engineer, mechanical engineer, and a computer technician. Increasing mergers of companies, white collar crime, private R&D budgets, and use of computers throughout the economy give these career areas their potential. **Occupations in Minnesota** with good to excellent job availability include accountant/auditor, systems analyst, computer programmer, computer engineer, electrical engineer, mechanical engineer, analysts, and secondary math teacher.

Persons choosing a career in the mechanics field use specialized skills to repair and maintain automobiles, heavy industrial equipment, and small mechanical devices. Jobs in this cluster include:

Automobile Mechanics	Motorcycle Mechanics
Farm Equipment Mechanics	Millwrights
Outboard Motor Mechanics	Jewelers
Office Machine Servicers	Appliance Repairers
TV/Radio Service Technicians	Truck Drivers – local
Telephone Installer/Repairers	Crane Operators
Truck Drivers – Long Distance	Taxi Drivers
Automobile Sales Workers	Barge Loaders
Heavy Equipment Operators	Bus Drivers
Automotive Parts Service	Auto Body Workers
Service Station Attendant	Power Saw Mechanic
Forklift Operators	Small Engine Mechanic
Diesel Mechanics	Air Conditioning/Refrigeration Servicers
Aircraft Mechanics	Vocational and High School Teachers
Healthcare/Medical Technicians	Logistics



Career preparation may include the following high school courses:

Small Gas Engines	Agriscience and Biotechnology
Power Mechanics	Architectural Drafting
Beginning Woodworking	Advanced Auto Repair
Basic Cabinet Construction	Robotics & Engineering
Advanced Woods	Home Repair and Maintenance
Introduction to Agriculture	Exploration of Technology & Engineering
Ag Building Construction	Intro to Auto Repair

Related courses include:

Electricity I	Agribusiness Management
Engineering Drawing	Psychology of the Child
Psychology	Natural Resource Management
Marketing 1	Machining and Sheet Metal
Marketing - School Store	Crafts 1&2
Accounting I	Horticulture and Landscaping
Intro to Business	Advanced Engineering Design and Manufacturing
Business Law	Advanced Architectural Technology
Floriculture	Advanced Machining & Foundry Practices
Advanced Metals	Spanish
Welding and Metal Fabricating	Intro to Arts
Desktop Publishing for Business and Communication	Microsoft Office Pro Certification

EMPLOYMENT OUTLOOK

Workers in these occupations move people and goods. Overall employment in transportation and material moving occupations is projected to grow faster than the average for all occupations from 2022 to 2032. Hot job tracks include truck drivers. A strong growth in truck freight has created a shortage of drivers. This gives the truck driving field its career area potential. **Occupations in Minnesota** with good to excellent job availability include auto mechanic, auto body repair, bus mechanic, truck and diesel mechanic, heavy equipment mechanic, farm equipment mechanic, aircraft mechanic, heavy and light truck driver, and school bus driver.

MEDICAL SERVICES

14

Persons choosing a career in the health service field utilize a variety of skills in treating the health and personal needs of patients and clients. Jobs in this field include:

Dental Hygienists	Medical Secretary
Dentists/Assistants	Dietician/Nutritionist
Physical Therapists/Assistants	Home Health Aide
Radiology Technologists/Technicians	Surgical Technicians
Nursing Assistants	EKG Technicians
Emergency Medical Technicians	EEG Technicians
Licensed Practical Nurses	Opticians
Occupational Therapists/Assistants	Sports Medicine
Medical Laboratory Technologists/Technicians	Respiratory Therapist
Medical Records Technicians	Medical Assistants
Nuclear Medicine Technologists	Recreational Therapists
Pharmacists/Assistants	Physicians/Assistants
Vocational Teacher	Registered Nurses
Speech Pathologists	Doctor

Career preparation might include the following high school courses:

Psychology	Career Exploration
Advanced Health & Performance	Any Physical Education Courses
Psychology of the Child	Small Animals Veterinary Science
	Zoology

Students interested in becoming registered nurses, therapists, technologists, and nutritionists might also include:

College Chemistry	Career Exploration
Chemistry	Environmental Biology
AP Chemistry	Forensic Science
Physics	Human Biology
College Speech	Spanish
College English	Shape-Up Fitness
Medical Terminology	Advanced Math



High school clubs and activities provide career exploration and social development.

Speech team	Activities team Manager
Unified Club	Conservation Club
Communicating Common Ground	MHS
BBBS	FFA
Knowledge Bowl	Skills USA

EMPLOYMENT OUTLOOK

Outlook overall is very good. The number of elderly people is increasing, thus creating more healthcare industry jobs, especially in outpatient services. Cost-cutting due to managed care, and a shortage of doctors in rural or remote areas. **Occupations in Minnesota** with projected good to excellent job availability include technicians, medical assistants, dentists, dental hygienists, dental assistants, pharmacists, opticians, nurse assistants, home health aides, occupational therapists, respiratory therapists, physician assistants, and occupational therapy assistants. Hot job tracks include information specialist, physical therapists, cosmetic dentist, allergy and immunology, health service administrators, nursing, physical therapists, radiologists, speech pathologists, surgical technicians, medical scientists, and internist in infectious diseases.

Persons choosing a career in the metalworking field use specialized tools and machines to shape metal objects into finished or semi-finished products. Jobs in this field include:

Machine Repair/Maintenance	Layout Specialists
Molders	Coremakers
Punch Press Operators	Tool and Die Makers
Machinists	Machine Tool Operators
Production Lathe Operators	Forging
Sheet Metal Workers	Grinder-Chippers
Automobile Manufacturing	Welders
Pattern Makers	Riveters
Assembly Metal Pieces	Heat Treaters
Engineers	Metallurgists
Heating/Cooling System Installers	Millwrights
Manufacturing Tech.	Jeweler
Vocational Teachers	CNC Operators



Career preparation may include the following high school courses:

Ag Building Construction	Exploration of Technology & Engineering
Welding and Fabricating	Advanced Architectural Technologies
Machining and Sheet Metal	Advanced Machining and Foundry Practice
Advanced Metals	Advanced Engineering Design and Manufacturing
Beginning Woodworking	Engineering Drawing
Advanced Woodworking	Robotics & Engineering
Architectural Drafting	

Related courses include:

Power Mechanics
Small Gas Engines
Home Repair and Maintenance
Intro to Auto Repair
Advanced Auto Repair
Agriscience and Biotechnology

In addition to the above courses, Engineering and Metallurgy students may include:

Chemistry	Pre-Calculus
AP Chemistry	Calculus
College Chemistry	AP Calculus
Physics	

EMPLOYMENT OUTLOOK

Workers in this group operate machines and other equipment to assemble goods or distribute energy. Hot job tracks include mechanical engineer, welding, manufacturing, and CNC operators. The increase in private Research & Development budgets gives this career area its potential. **Occupations in Minnesota** with projected good to excellent job availability include welders and cutters, combination machine tool setup-operator, maintenance mechanics, and mechanical engineers. Training in CNC-computer numerical control is becoming more and more necessary. Three primary areas are CNC machine operator, CNC programmer, and CNC machine repair.

Persons choosing a career in the science field may provide services or conduct research in areas with an emphasis in biology, chemistry, or physics. Science careers include:

Agronomist	Air Analyst	Dietician/Nutritionist
Chemist	Atomic Scientist	Medical Technologist
Biochemist	Oceanographer	Veterinarian/Assistant
Botanist	Weather Forecaster	Public Health Bacteriologist
Microbiologist	Chemical Engineer	Dentist/Dental Assistant
Pharmacist	Cytotechnologist	Lab Technician/Lab Assistant
Fishery Biologist	Organic Chemist	Physician/Physician's Assistant
Forest Animal Ecologist	Industrial Chemist	High School and College Teacher
Ecologist	Soil Engineer	Clean Energy Tech/Engineer
Geologist	Precision Ag Tech.	Conservation Scientist

Career preparation may include the following high school courses:

Biology	Advanced Health/Perf.
Chemistry	Human Biology
Physics	Small Animals
Engineering	Veterinary Science
Forensic Science	Environmental Biology
Exploration of Technology &	Medical Terminology
Zoology	

Related courses include:

Electricity	Agribusiness Management	Floriculture and Greenhouse Operations
Algebra	Horticulture & Landscaping	Shape-Up Fitness
Geometry	Natural Resource Management	Kitchen Chemistry
Pre-Calculus	Applied Animal Science	Psychology of the Child
Calculus	Wildlife	Stars and Storms
AP Calculus		Algebra 2 Acc.
Trigonometry		
Microsoft Office Pro Certification		
Desktop Publishing for Business and Communication		



High School clubs and activities provide career exploration and social development.

Knowledge Bowl	Conservation Club
Math League	Spanish Club
FFA	Student Council
MHS	Communicating Common Ground
Skills USA	Unified Club

EMPLOYMENT OUTLOOK

These workers use scientific research to help solve problems and expand knowledge. Hot job tracks include pharmaceutical drug developer, genetic researcher, genomics, computer-trained biologist, physician assistant, pharmacist, allergists, orthopedic surgeon, geriatrician. Increasing interest in research by drug companies, mapping human chromo, an aging population, and increasing interest in managing infertility and menopause give these career areas their potential. **Occupations in Minnesota** on the environmental and engineering side of science include clean energy engineers/techs, agronomy, soil science, and precision agriculture technicians. Health science jobs with projected good to excellent job availability include chemist, chemical engineer, registered nurse, medical lab technician, medical assistant, dentist, dental assistant, dental hygienist, pharmacist, and physician assistant.

Information Processing

Legal or Financial Secretary
Radio Station Operator
Receptionist
Reservation Agent
Switchboard Operator
Proofreader
Mail Carrier
Title Searcher
Hospital Ward Clerk
Medical Billing

Related

Vocational teacher
Business teacher
Teacher assistants

Microsoft Office Pro Certification	Accounting
Desktop Publishing for Business and Communication	Floriculture and Greenhouse Operations
Creative Writing	College Credit Public Speaking
Human Biology	Natural Resource Management
Advanced Health & Performance	Personal Finance
Business Law	Marketing 1
Career Exploration	Marketing - School Store
	Agribusiness Management



Speech team	Yearbook
Skills USA	FFA
Unified Club	Conservation Club
BBBS	Student Council
Spanish Club	Communication Common Ground

In these occupations, workers prepare and organize documents, track products, and provide information to the public. Hot job tracks include information specialist, opportunities in small businesses, healthcare administrative, and professional organizer. Many professionals are overloaded with email, faxes, etc. These reasons give these careers their potential. **Occupations in Minnesota** with projected good to excellent job availability include bank tellers, legal secretaries, medical secretaries, receptionists, financial client management staff, adjustment clerks, bill and account collectors.

Persons choosing a career in the social studies areas may provide services or conduct research. Jobs in this field include:

Psychologist	Social Worker	Lawyer/Attorney
Anthropologist	Political Scientist	Public Relations
School Psychologist	Corrections Officer	Claims Examiner
Clergy	Therapist	Recreation Worker
City Manager	Personnel Specialist	Labor Relations Specialist
Paralegals	Psychiatric Aide	High School and College Teacher
Social Service Manager	Wedding Planner	Human Resources
Marriage and Family Therapist	Personal Fitness Trainer	Funeral Directors
Child Care	Rehab Counselor	Credit Counselors
Employment Interviewer	Historian	
Counselor	Sociologists	

Career preparation may include the following high school course:

Geography	Psychology
Art History	Intro to Business
Introduction to FACS	Physical Education
Sociology	Career Exploration
Microsoft Office Pro Certification	
Desktop Publishing for Business and Communication	

Related courses include:

Business Law
Creative Writing
Mythology
Forensic Science
Spanish
College Credit Public Speaking
Environmental Biology
Agriscience and Biotechnology



High school clubs and activities provide career exploration and social development.

Knowledge Bowl	MHS	Communication Common
Conservation Club	BBBS	Ground
Peer Tutors	FFA	Speech Team
Student Council	Unified Club	

EMPLOYMENT OUTLOOK

Workers in these occupations promote wellness to help people cope with or overcome challenges. Hot job tracks include lawyers in the areas of employment, corporate finance and securities, crime analyst, corrections officer, grief therapist, employee assistance counselor, training specialists, geriatric case manager, home health social workers, and human resource professional. The expected growth is partly due to expanded services to the elderly population. Mergers and acquisitions create demand for legal corporate work, an increased market for technology rip-offs, sexual harassment and discrimination on the job, a growing prison population, an aging population, shortened hospital stays, and organizing and managing patient care to keep costs down are all reasons for the potential in these career areas.

Occupations in Minnesota with projected good to excellent job availability includes human services workers, social workers, welfare eligibility workers, clergy, residential counselors, and corrections officers.

Persons choosing a career in the textiles and clothing field design, manufacture, clean and repair clothing. Jobs in their field include:

Fashion Designers	Lab Technicians
Fashion Coordinators	Finishers
Laundry/Dry Cleaners	Advertising
Furniture Upholsterers	Modeling
Textile Chemists	Textile Crafting
Engineers	Business Administrators
Marketing	Fashion Photographers
Fashion Illustrator	Tailors/Dressmakers/Alterationists
Patternmaking	Clothing and Textile Craft Entrepreneur
Fabric Designers	Vocation and High School Teachers
Sales Representatives	Material Engineers

Career preparation may include the following high school courses:

Art History	Ceramics & Sculpture 1&2
Drawing	Agribusiness Management
Engineering Drawing	Natural Resource Management
Sports and Entertainment Marketing	Agriculture Mechanics and Engineering Technology

Related courses include:

Marketing - School Store	Intro to Business
Marketing 1	Advanced Engineering Design
Digital Arts	Microsoft Office Pro Certification
Painting	Robotics & Engineering
Media Arts	Career Exploration
Technical Images	Desktop Publishing for Business and Communication



In addition to the above courses, engineering and chemistry students may include:

Career Exploration	Pre-Calculus
Chemistry	Calculus
AP Chemistry	AP Calculus
College Chemistry	Physics

EMPLOYMENT OUTLOOK

Textile designers are highly technical and possess in-depth knowledge about the production of textiles, including types of fabric and yarns, color, dyeing, weaving, embroidery and printing methods. Textile designers can be self-employed or work as part of a design team – such as for a clothing brand or retailer. Hot job tracks include Textile Engineer, Textile Designer, Fashion Designer, Pattern Maker, Costume Designer, Fabric Worker and Weaving Supervisor.

The competition for jobs in this area is very strong; talented individuals need to have an excellent portfolio. Occupations in Minnesota with projected good to excellent job availability include retail store sales, material and textile manufacturing, sales reps for large companies, and small business shop specialty owners. Strong competition exists for commission sales within stores.