



VALLEY CAREER & TECHNICAL CENTER

WHERE PREPARATION MEETS OPPORTUNITY

2027-28

Career Planning and Program Guide

Explore careers • Learn real skills • Build confidence • See what is possible



***At VCTC, students do more than prepare for a job.
They begin to see a future for themselves.***

Serving students from Augusta County, Staunton City and Waynesboro City

Choosing the Right VCTC Program

Choose the work—not only the job.



Think about what you enjoy doing, the environment where you work best and the skills you want to strengthen. At VCTC, students learn by doing—with real tools, equipment, projects, labs, simulations and workplace experiences.

What kind of work interests me?	Building, repairing, creating, caring for people, solving problems or working with technology.
What environment fits me?	Working with people, equipment, computers, animals, food, structures or systems.
What habits am I ready to build?	Safety, attendance, communication, persistence, accuracy, communication, teamwork and responsibility.

BEFORE YOU APPLY

- Talk with your school counselor about graduation requirements, program length and scheduling.
- Choose a program because you are interested in the work you will actually do—not only the job title.
- Consider the physical, safety, communication and academic expectations of the field.

- Ask about current credentials, dual enrollment, clinical requirements, transportation and work-based learning opportunities.

Career Readiness Skills Employers Notice

Technical skills may help you qualify for an opportunity.

Your everyday work habits often determine whether you keep growing once you get there.

These skills can be practiced now—everyday.

CAREER-READY SKILL	WHAT IT LOOKS LIKE	PRACTICE IT NOW
Reliability	On time, prepared and follows through	Arrive ready; meet deadlines; communicate early when there is a problem.
Communication	Listens, asks questions and explains clearly	Use professional email; repeat directions; give useful updates.
Teamwork	Supports the group and does a fair share	Share tools and tasks; ask how you can help; handle disagreement respectfully.
Problem Solving	Investigates before guessing	Define the problem; gather facts; try a solution; check the result.
Adaptability	Learns from change and feedback	Try a new method; accept correction; recover from mistakes.
Professionalism	Shows respect, judgment and self-control	Use appropriate language; protect privacy; care for equipment and workspace.
Safety	Recognizes hazards and follows procedures	Use PPE; stop when unsure; report hazards; never shortcut a safety step.
Initiative	Sees useful next steps without constant prompting	Finish the task, clean up, prepare the next step, then ask what else is needed.

Build a Career Plan Not Just a Course Schedule

Career plans grow through exploration, experience and reflection. Students do not need every answer today, but they should keep building evidence and options.

GRADE 9–10 EXPLORE

- Build attendance, punctuality, communication and study habits.
- Take courses that keep multiple pathways open.
- Visit programs, job sites, career fairs or employers when opportunities are available.

GRADE 10–11 TEST YOUR FIT

- Compare VCTC programs using interests, work style and strengths.
- Talk with your counselor about graduation requirements and program scheduling.
- Look at credentials, dual enrollment and work-based learning.

GRADE 11–12 BUILD SKILLS AND EXPERIENCE

- Earn the strongest relevant credentials available to you.
- Use work-based learning, clinical experiences, internships or apprenticeships when eligible.
- Use projects, credentials and workplace feedback to identify strengths and next skills to practice.

- Research employment, apprenticeship, community college, military, four-year college or a combination.

For Parents and Families

Students are finding out what they are capable of.

They are learning to work hard, solve problems, take responsibility and take pride in doing something well.

Confidence grows one project, one lesson learned, and one success at a time.



Families play an important part in that growth. Your encouragement helps students stay with difficult work, learn from mistakes, and recognize the possibilities beginning to open in front of them.

A strong career decision is usually built through conversation, exposure and reflection. Families can help students think beyond a job title and understand the realities of work.

ASK QUESTIONS THAT BUILD OWNERSHIP

- What part of this program sounds most interesting to you—and why?
- What parts might be difficult or uncomfortable?
- Which of your current strengths fit this work?
- Which habits or soft skills would you need to improve?
- What is your second-choice pathway if your first choice changes?

LOOK BEYOND STARTING PAY

Starting wages matter, but they are only one part of career planning. Also consider demand, hours, working conditions, physical expectations, benefits, advancement, required education, licensing, transportation and whether the daily work fits the student.

HELP STUDENTS PRACTICE ADULT RESPONSIBILITIES

- Wake up and arrive on time without repeated reminders.
- Communicate directly with teachers, supervisors, and counselors when appropriate.
- Keep track of deadlines, equipment, uniforms, and paperwork.
- Practice professional phone, email, and in-person communication.
- Learn to receive correction without becoming defensive.

- Follow through on commitments even when the work is not exciting.

Help the student make their own decision and build the habits they need to succeed.

Programs at a Glance

Agriculture	
Agriculture - Operating as a Business	Pre-Vet / Animal Science
Architecture & Construction	
Carpentry I & II	Electricity I & II
HVACR I & II	Masonry I & II
Education	
VA Teachers for Tomorrow I & II	
Health Science	
Pre-Nursing – Nurse Aide	Advanced Pre-Nursing – Patient Care Tech
Pre-Nursing – Medical Assistant	Dental Careers I & II
Emergency Medical Technician I & II	
Hospitality & Human Services	
Culinary Arts I & II	Cosmetology I & II
Information Technology	
Computer Systems Technology I & II	Computer Network Software Operations I & II
Manufacturing	
Industrial Maintenance	Precision Machining I & II
Welding I & II	
Public Safety	
Criminal Justice I & II	Firefighting I & II
Transportation, Distribution & Logistics	
Auto Technology I & II	Aviation Technology I & II
Collision & Repair Technology I & II	Diesel Equipment Technology I & II
Logistics / Pre-CDL	

**A program choice does not define your whole future.
It gives you a place to start.**





AGRICULTURE

Care. Cultivate. Lead.

Explore the science, care, and business of agriculture and animals. You will learn about animal health, nutrition, handling, reproduction, and livestock management while also exploring how agricultural businesses operate. You will also explore careers connected to veterinary and animal science, livestock production, agribusiness, agricultural sales, farm management, and other agriculture-related industries.



PROGRAMS

Ag Business - Managing and Operating the Farm Business

Pre-Vet / Animal Science

Where Agriculture, Animals, & Business Come Together.

Ag Business – 1 Year

Whether you are interested in running your own business, managing a farm, working in agricultural sales or equipment, or pursuing another agriculture-related career, you will gain practical skills you can use in many different careers. You will explore what it takes to run a successful agricultural business—from managing money and making business decisions to marketing products and working with customers. You will also learn how changing markets, technology, costs, and other factors affect the decisions agricultural businesses make every day.



SKILLS YOU WILL BUILD

- Plant and animal science fundamentals
- Animal care and handling
- Animal nutrition and health
- Livestock selection and evaluation
- Plant identification and care
- Plant propagation and production
- Soil, nutrients, and water management
- Greenhouse and nursery skills
- Agricultural tools and equipment
- Production planning
- Agricultural recordkeeping
- Marketing and sales
- Understand agricultural markets
- Business and entrepreneurship
- Customer service and communication

STRENGTHS THAT HELP YOU SUCCEED

Interest in animals, plants, agriculture, or running a business; practical problem-solving; basic math; organization; communication; leadership; and curiosity about how agricultural products are produced, managed, marketed, and sold.

WHAT SUCCESS LOOKS LIKE

Responsibility — Animals, plants, customers, and production schedules depend on you. Students learn to follow through, stay organized, and complete work when it needs to be done.

Problem-Solving — Agriculture does not always go according to plan. Students learn to respond to challenges involving animal care, plant health, production, equipment, costs, or changing conditions.

Initiative — Students become more confident working independently, recognizing what needs to be done, and taking responsibility for projects and daily tasks.

CREDENTIAL & COLLEGE CREDIT

- ✓ DE AGR 141 Introduction to Animal Science and Technology / HS Livestock Production
- ✓ DE AGR 142 Introduction to Plant Science and Technology / HS Greenhouse Plant Production & Management
- ✓ DE AGR 143 Introduction to Agribusiness and Financial Management / HS Operating Farm Business
- ✓ Beef Quality Assurance credential

CAREER DIRECTIONS

Farm or livestock management, greenhouse/nursery management, agricultural sales, feed and animal nutrition, horticulture and landscaping, agricultural equipment and supplies, agribusiness management, agricultural marketing, and entrepreneurship.

CAREER EXAMPLE Agricultural Sales Representative	MEDIAN ANNUAL WAGE \$50,000–\$60,000 Virginia • May 2024
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Pre-Vet / Animal Science -2 years

Turn your interest in animals into hands-on experience with both large and small animals. You will learn about animal health, anatomy, nutrition, behavior, handling, reproduction, and basic veterinary care while exploring how veterinarians and animal-care professionals keep animals healthy. You will work with concepts related to companion animals as well as livestock and other large animals. The program is a strong fit for students interested in veterinary medicine, veterinary technology, animal science, livestock production, animal care, and other animal-related careers.



SKILLS YOU WILL BUILD

- Animal anatomy and physiology
- Animal health assessment
- Safe animal handling and restraint
- Veterinary assisting skills
- Vital signs and basic
- Animal nutrition
- Animal behavior
- Large-animal
- Small-animal care
- Veterinary medical terminology
- Veterinary tools and equipment
- Medication and dosage fundamentals
- Sanitation and infection prevention
- Biosecurity
- Reproduction and genetics
- Animal husbandry
- Veterinary recordkeeping

STRENGTHS THAT HELP YOU SUCCEED

Biology and life science; anatomy and physiology; observation; basic math; comfort handling animals; interest in both companion and livestock animals; dependable care habits.

WHAT SUCCESS LOOKS LIKE

Compassion & responsibility — Animal care requires dependable attention to the needs and welfare of living animals.

Observation — Students learn to notice behavior, condition and changes that may matter.

Communication — Animal-care careers require communicating observations and instructions clearly.

Teamwork — Veterinary and agricultural settings depend on coordinated work and safe animal handling.

CREDENTIAL & COLLEGE CREDIT

DE VET 101	Introduction to Veterinary Assisting (Year 1)/HS Vet Science I
DE VET 103	Veterinary Office Assisting (Year 1)/HS Vet Science I
DE AGR 141	Introduction to Animal Science and Technology (Year 1) / HS Livestock Production
DE VET 102	Care and Maintenance of Small Domestic Animals (Year 2)/ HS Vet Science II & Equine Management
DE VET 118	Canine and Feline Behavior for Veterinary Assistants (Year 2) / HS Vet Science II
NOCTI Small Animal Science and Technology Certificate	

CAREER DIRECTIONS

Veterinary assistant, animal-care technician, kennel/shelter work, livestock/equine careers, agriculture, veterinary technology or veterinary medicine.

CAREER EXAMPLE

Veterinary Assistant

MEDIAN ANNUAL WAGE

\$34,330

Staunton-Stuarts Draft area • May 2024

ARCHITECTURE AND CONSTRUCTION

Turn plans, measurements and materials into safe, functional buildings and systems.



Carpentry I & II

Electricity I & II

HVACR I & II

Masonry I & II

Build for the future. Take pride in work made to last.

Carpentry I & II – 2 years

Learn how to turn plans and materials into real structures. Through hands-on projects, you will develop skills in measuring, layout, framing, cutting, fastening, and construction techniques while learning to safely use hand and power tools. You will learn how to read construction drawings, select materials, build and assemble structural components, and complete projects accurately and safely. Along the way, you will build problem-solving, teamwork, precision, and strong work habits that prepare you for careers in carpentry, construction, remodeling, and the skilled trades.



SKILLS YOU WILL BUILD

- Measuring and layout
- Construction math
- Blueprint and plan reading
- Hand tool skills
- Power tool skills
- Framing
- Floor construction
- Wall construction
- Roof framing
- Doors and windows
- Exterior construction
- Interior finishing
- Material selection and estimating
- Cutting and fastening
- Building systems fundamentals
- Construction safety
- Problem-solving
- Precision and quality workmanship

STRENGTHS THAT HELP YOU SUCCEED

Measurement, fractions and basic geometry; spatial reasoning; blueprint reading; hand-eye coordination; practical problem solving; interest in building accurately with your hands.

WHAT SUCCESS LOOKS LIKE

Accuracy — Students learn that small measurement errors can affect an entire project.

Planning — Drawings and specifications require thinking ahead before cutting or assembling.

Teamwork — Construction tasks depend on coordination and shared responsibility.

Craftsmanship — Students see directly how patience and care affect the quality of finished work.

CREDENTIALS

- ✓ OSHA 10
- ✓ NOCTI Carpentry

CAREER DIRECTIONS

Carpenter, construction technician, framing/finish carpentry, building maintenance, contractor pathways and related skilled trades.

CAREER EXAMPLE

Carpenter

MEDIAN ANNUAL WAGE

\$50,860

Staunton-Stuarts Draft area • May 2024

Electricity I & II – 2 years

Learn how to wire, power, and troubleshoot electrical systems through hands-on projects. You will explore how electricity works while building skills in circuits, wiring, electrical devices, tools, testing equipment, and basic residential and commercial electrical systems. You will learn to read diagrams, measure and install wiring, connect electrical components, test circuits, and find problems when a system is not working correctly. Safety is a major part of everything you do as you build the precision, problem-solving, and work habits needed for careers in the electrical and construction trades.



SKILLS YOU WILL BUILD • Electrical fundamentals • Circuit building • Residential wiring • Commercial wiring fundamentals • Electrical installation • Conduit bending and installation • Electrical panels and circuits • Blueprint and diagram reading • Electrical code fundamentals • Testing and measurement • Troubleshooting • Hand and power tool skills • Electrical materials and components • Electrical safety — • Planning and layout • Precision and quality workmanship • Problem-solving	STRENGTHS THAT HELP YOU SUCCEED Math and measurement; basic physical science; logical thinking; diagrams and schematics; attention to detail; comfort following exact safety procedures. WHAT SUCCESS LOOKS LIKE Attention to detail — Electrical work reinforces the importance of correct connections, measurements and procedures. Safety — Students learn that safe habits protect themselves, coworkers and future customers. Problem solving — Circuits that do not perform correctly require systematic troubleshooting. Responsibility — Electrical work builds respect for codes, standards and quality workmanship.
CREDENTIALS ✓ OSHA 10 ✓ NOCTI Electrical Construction Technology ✓ Trade Related Instruction training toward Virginia journeyman/master electrician requirements	

CAREER DIRECTIONS

Electrician, electrical helper/technician, maintenance electrician, industrial electrical pathways and apprenticeship.

CAREER EXAMPLE Electrician	MEDIAN ANNUAL WAGE \$56,150 Staunton-Stuarts Draft area • May 2024
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Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

HVACR I & II – 2 years

Learn how the systems that heat, cool, and control the air in homes and buildings actually work. Through hands-on projects, you will explore heating, air conditioning, refrigeration, electricity, airflow, and basic system controls. You will learn to use HVAC-R tools and testing equipment, install and service components, take measurements, and troubleshoot problems when a system is not working correctly. Along the way, you will build mechanical, electrical, problem-solving, and safety skills that prepare you for careers in heating, air conditioning, refrigeration, building maintenance, and other skilled trades.



SKILLS YOU WILL BUILD

- Heating system fundamentals
- Air conditioning fundamentals
- Refrigeration basics
- HVAC electrical skills
- System controls
- Airflow and ventilation
- Ductwork fundamentals
- Refrigerant system skills
- HVAC-R tools and equipment
- Testing and measurement
- Troubleshooting and diagnostics
- Installation skills
- Preventive maintenance
- Technical diagrams and manuals
- Basic piping and tubing
- Energy efficiency
- HVAC-R safety
- Mechanical problem-solving

STRENGTHS THAT HELP YOU SUCCEED

Math, measurement and physical science; mechanical and electrical reasoning; reading diagrams; troubleshooting; practical problem solving; comfort working in different environments.

WHAT SUCCESS LOOKS LIKE

Troubleshooting — Students learn to use symptoms, measurements and system knowledge to identify problems.

Customer focus — HVACR work often occurs in homes and businesses where communication and professionalism matter.

Adaptability — Technicians encounter different equipment, conditions and problems every day.

Responsibility — Accurate, safe work affects comfort, equipment performance and customer trust.

CREDENTIALS

- ✓ OSHA 10
- ✓ EPA 608 Certification (CFC)
- ✓ Trade Related Instruction training toward Virginia journeyman/master HVACR technician requirements

CAREER DIRECTIONS

HVACR technician, installer, service technician, refrigeration technician, building maintenance and controls-related careers.

CAREER EXAMPLE

HVACR Mechanic / Installer

MEDIAN ANNUAL WAGE

\$57,030

Staunton-Stuarts Draft area • May 2024

Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Masonry I & II – 1 year

Build work that is meant to last. Learn how to build strong, lasting structures with brick, block, stone, and mortar. You will practice measuring, layout, mixing and applying mortar, setting brick and block, and building walls and other masonry projects. You will learn to use masonry tools and equipment, read basic plans, keep your work level, straight, and properly aligned, and understand the importance of safety and quality workmanship. Along the way, you will build the precision, problem-solving, patience, and work habits needed for careers in masonry, construction, and the skilled trades.



SKILLS YOU WILL BUILD • Masonry fundamentals • Measuring and layout • Construction • Brick and block laying • Mortar mixing and application • Joint finishing • Wall construction • Corners and leads • Masonry patterns and • Cutting masonry materials • Blueprint and plan reading • Masonry tools and equipment • Repair fundamentals • Quality • Problem- • Physical coordination and precision	STRENGTHS THAT HELP YOU SUCCEED Measurement and basic geometry; spatial awareness; hand-eye coordination; physical stamina; patience; interest in layout, alignment and producing durable, visible work. WHAT SUCCESS LOOKS LIKE Patience — Quality masonry requires careful repetition and consistent technique. Accuracy — Layout, level and alignment make precision visible in the finished product. Physical work habits — Students learn pacing, organization and safe material handling. Craftsmanship — Finished structures provide immediate evidence of the quality of a student's work.
CREDENTIALS AND COLLEGE CREDIT ✓ OSHA 10 ✓ NOCTI Construction Masonry–Block	

CAREER DIRECTIONS

Masonry helper/technician, brick/block mason, construction trades, restoration and contractor pathways.

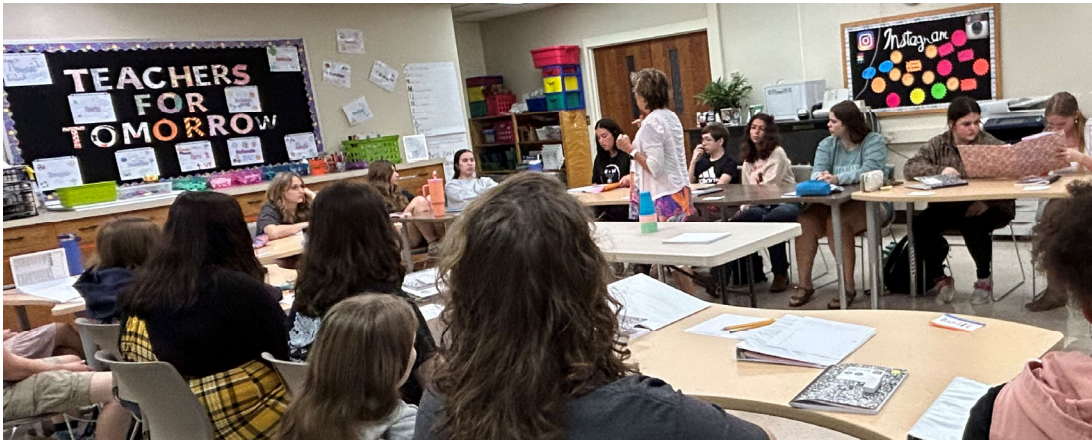
CAREER EXAMPLE Brickmason / Blockmason	MEDIAN ANNUAL WAGE \$55,630 Virginia • May 2024
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Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

EDUCATION

VA Teachers for Tomorrow I & II -1 year

If you have ever wondered what it is like to be the person at the front of the classroom, this program lets you explore teaching from the inside. You will study how schools work, practice teaching techniques, spend time in educational settings and reflect on what helps different students learn.



SKILLS YOU WILL BUILD

- Lesson planning
- Teaching and presentation skills
- Classroom management
- Working with children
- Learning styles and student needs
- Communication skills
- Relationship building
- Creativity in teaching
- Assessment and feedback
- Educational
- Observation skills
- Hands-on classroom experience
- Problem-solving
- Organization and time management
- Teamwork and collaboration
- Leadership
- Professionalism
- Reflection and improvement
- Career readiness — explore careers in teaching, counseling, educational support, administration, and other education-related fields

STRENGTHS THAT HELP YOU SUCCEED

Reading, writing and speaking; communication; organization; patience; observation; creativity; empathy; interest in how people learn and in helping others improve.

WHAT SUCCESS LOOKS LIKE

Communication — Students practice explaining ideas clearly and listening actively.

Empathy — Teaching requires recognizing that different learners need different kinds of support.

Patience — Helping another person learn often requires multiple explanations and approaches.

Reflection — Students learn to evaluate their own performance and identify ways to improve.

COLLEGE CREDIT

DE EDUC 200 Fundamentals of Education
NOCTI Fundamentals of Teaching Certificate

CAREER DIRECTIONS

Teacher, instructional assistant, childcare/youth services, training and development, counseling/education pathways and other people-centered professions.

CAREER EXAMPLE

Secondary School Teacher

MEDIAN ANNUAL WAGE

\$51,640

Staunton-Stuarts Draft area • May 2024

Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

HEALTH SCIENCES

Prepare to care for people through safe clinical practice, observation, teamwork, and compassion.



Pre-Nursing – Nurse Aide

Advanced Pre-Nursing – Patient Care Tech

Pre-Nursing – Medical Assistant

Dental Careers I & II

Emergency Medical Technician I & II

Compassion and competence grow together through practice.

Pre-Nursing – Nurse Aide – 1 year

Learn what direct patient care is really like while building a strong foundation for nursing and other healthcare careers. You will practice basic patient care, vital signs, safety and infection-control skills and learn how compassion, communication, and attention to detail affect the person receiving care.



SKILLS YOU WILL BUILD

- Patient care fundamentals
- Vital signs
- Basic nursing
- Anatomy and physiology
- Medical terminology
- Infection prevention
- Patient safety
- Health observation
- Patient mobility and positioning
- Healthcare measurements and documentation
- Communication with patients
- Healthcare teamwork
- Emergency response fundamentals
- Privacy and confidentiality
- Compassion and
- Critical thinking and problem-solving
- Attention to detail
- Professionalism

STRENGTHS THAT HELP YOU SUCCEED

Biology and life science; basic anatomy and physiology; medical terminology; basic math; careful observation; communication; compassion; comfort with direct, hands-on patient care.

WHAT SUCCESS LOOKS LIKE

Compassion — Students learn to provide care while respecting patient dignity.

Communication — Listening, explaining and reporting information are essential parts of patient care.

Responsibility — Healthcare tasks must be completed correctly and documented appropriately.

Attention to detail — Changes in a patient's condition and small procedural details can matter.

CREDENTIALS

- ✓ NOCTI Nurse Assisting
- ✓ Virginia Board of Nursing Certified Nurse Aide

CAREER DIRECTIONS

Nurse aide/CNA, patient-care support, long-term care, hospital support and a foundation for nursing and other health professions.

CAREER EXAMPLE

Nursing Assistant

Licensed Practical Nurse (LPN)

MEDIAN ANNUAL WAGE

\$37,340

\$62,530

Advanced Pre-Nursing – Patient Care Technician – Year 1

**VCTC Nurse Aide is a pre-requisite for Advanced Pre-Nursing – Patient Care Technician*

Take patient-care skills to the next level. Building on nurse-aide preparation, you will explore advanced patient care, medication-aide concepts and phlebotomy while practicing the judgment, accuracy and professionalism expected when people depend on you for care.



SKILLS YOU WILL BUILD

- Advanced patient care
- Medication administration
- Medication safety
- Phlebotomy fundamentals
- Blood collection equipment
- Specimen collection and handling
- Infection prevention
- Patient identification and safety
- Vital signs and patient observation
- Advanced Medical terminology
- Healthcare documentation
- Patient communication
- Professional communication
- Attention to detail
- Critical thinking and problem-solving
- Privacy and confidentiality
- Professionalism and responsibility
- Clinical confidence

STRENGTHS THAT HELP YOU SUCCEED

Biology, anatomy and physiology; medical terminology; basic math; careful observation; steady hands for clinical skills; judgment; communication; comfort with blood and direct patient care.

WHAT SUCCESS LOOKS LIKE

Judgment — Students learn to consider multiple factors and recognize when something needs attention.

Integrity — Healthcare depends on honesty, confidentiality and accurate documentation.

Teamwork — Patient care requires coordination with nurses and other healthcare professionals.

Professionalism — Students practice calm, respectful behavior in situations involving vulnerable patients.

CREDENTIALS AND COLLEGE CREDIT

- ✓ Virginia State Board of Nursing—Medication Aide
- ✓ National Certification Exams—Phlebotomy Technician

CAREER DIRECTIONS

Patient care technician, healthcare support, phlebotomy-related pathways and continued education in nursing/allied health.

CAREER EXAMPLE

Patient Care Technician
Registered Nurse (RN)

MEDIAN ANNUAL WAGE

\$39,530
\$80,000

Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Pre-Nursing – Medical Assistant – 2 years

Medical assistants combine people skills with hands-on clinical and office responsibilities. You will study anatomy, terminology, vital signs, clinical procedures, safety and documentation while learning how to stay organized, communicate with patients and support a healthcare team.



SKILLS YOU WILL BUILD • Patient intake and preparation • Vital signs • Clinical assisting • Anatomy and physiology • Medical • Infection prevention • Phlebotomy fundamentals • EKG • Basic laboratory skills • Medication fundamentals • Patient communication • Medical office procedures • Electronic health records • Healthcare documentation • Privacy and confidentiality • Emergency response fundamentals • Clinical safety • Teamwork and communication • Professionalism	STRENGTHS THAT HELP YOU SUCCEED Biology, anatomy and physiology; medical terminology; basic math; organization; reading and documentation; communication; interest in both clinical care and medical-office work. WHAT SUCCESS LOOKS LIKE Communication — Medical assistants interact with patients, families and healthcare professionals. Organization — Clinical and administrative responsibilities require managing information and multiple tasks. Compassion — Students practice treating patients respectfully while completing technical procedures. Integrity — Accurate records, privacy and ethical behavior are essential healthcare expectations.
CREDENTIALS ✓ NOCTI Medical Assisting ✓ NHA Certified Clinical Medical Assistant (CCMA)	

CAREER DIRECTIONS

Medical assistant, clinical support, physician-office/clinic roles and pathways into nursing or allied health.

CAREER EXAMPLE Medical Assistant	MEDIAN ANNUAL WAGE \$40,930 Staunton-Stuarts Draft area • May 2024
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Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Dental Careers I & II -1 Year

Get a close-up look at the work that happens in a dental office. You will learn dental-assisting fundamentals, infection control, clinical safety, patient support and dental terminology while practicing the precision, teamwork and professional communication that help patients feel confident in their care.



SKILLS YOU WILL BUILD

- Dental terminology
- Dental anatomy
- Chairside assisting
- Dental instruments
- Patient Preparation
- Infection prevention
- Instrument
- Dental materials
- Dental radiography
- Four-handed dentistry
- Dental equipment
- Patient communication
- Oral health and prevention
- Dental charting
- Dental office procedures
- Patient privacy and confidentiality
- Safety practices
- Professionalism

STRENGTHS THAT HELP YOU SUCCEED

Biology and basic anatomy; basic chemistry; spatial awareness; fine-motor control; attention to detail; communication; comfort working closely with patients and clinical instruments.

WHAT SUCCESS LOOKS LIKE

Communication — Students learn to help patients understand directions and feel comfortable.

Attention to detail — Dental procedures, instruments and infection-control practices require precision.

Teamwork — Dental care is delivered by a coordinated clinical team.

Professionalism — Patient privacy, sanitation, appearance and reliability matter in clinical settings.

CREDENTIALS

- ✓ NOCTI Dental Assisting
- ✓ Dental Radiation & Safety Certificate

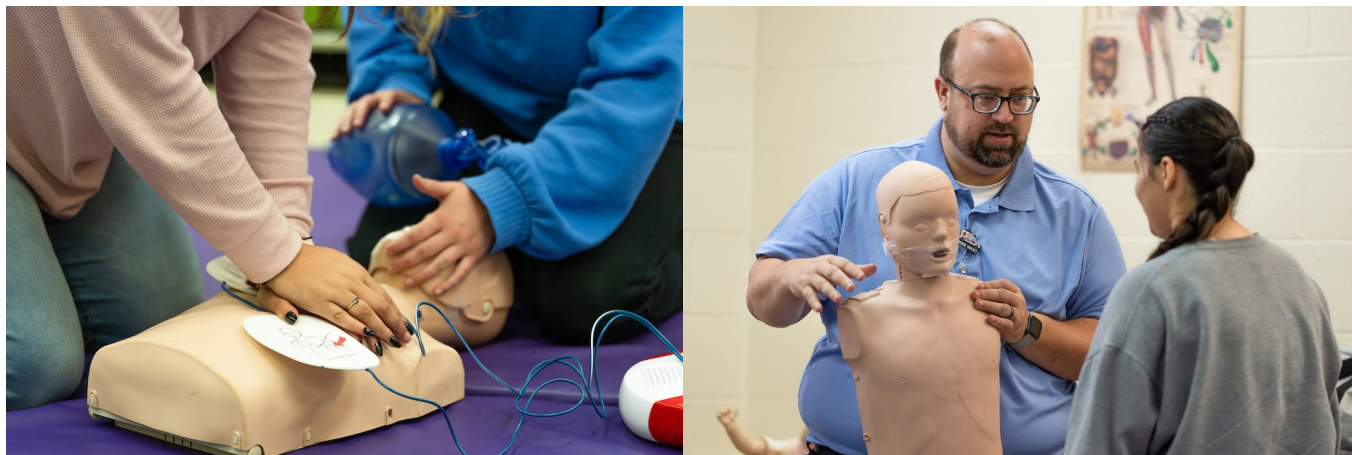
CAREER DIRECTIONS

Dental assistant, dental-office support and pathways toward dental hygiene, expanded assisting or other oral-health careers.

CAREER EXAMPLE Dental Assistant	MEDIAN ANNUAL WAGE \$44,510 Staunton-Stuarts Draft area • May 2024
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Pre-Medical -Emergency Medical Technician I & II – 1 Year

Learn to think, communicate and act when someone needs help quickly. EMT students build skills in patient assessment, basic life support, emergency care, scene safety and documentation while practicing how to stay focused and work as a team in stressful situations.



SKILLS YOU WILL BUILD

- Patient assessment
- Vital signs
- Airway and breathing care
- CPR and basic life support
- Medical emergency response
- Trauma assessment
- Bleeding and shock management
- Injury care
- Patient movement and transport
- Emergency equipment
- Medical terminology
- Emergency communication
- Patient documentation
- Scene assessment and safety
- Critical thinking and decision-making
- Patient communication
- Infection prevention
- Professionalism and responsibility

STRENGTHS THAT HELP YOU SUCCEED

Biology, anatomy and physiology; medical terminology; basic math; quick but careful thinking; observation; communication; physical stamina; ability to stay focused under pressure.

WHAT SUCCESS LOOKS LIKE

Decision making — Students practice assessing information and choosing appropriate actions under time pressure.

Communication — Emergency care requires clear communication with patients, partners and other responders.

Emotional control — Students learn to function professionally in stressful situations.

Teamwork — EMS care depends on coordinated roles, trust and communication.

CREDENTIALS

- ✓ CPR for the Health Care Provider
- ✓ National Incident Management System (NIMS) 100, 200, 700, 800
- ✓ IS-5 Introduction to Hazardous Materials
- ✓ AWR-160 Terrorism Awareness
- ✓ EMT Certification for VA
- ✓ National Registry of EMTs Certification (Must be 18)

CAREER DIRECTIONS

Emergency medical technician, EMS/fire service pathways, emergency-department support and foundations for paramedic and other healthcare careers.

CAREER EXAMPLE

Emergency Medical Technician

MEDIAN ANNUAL WAGE

\$45,060

Virginia • May 2024

Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

HOSPITALITY & PERSONAL SERVICES

Create high-quality experiences through technical skill, creativity, service, and professionalism.



Culinary Arts I & II

Cosmetology I & II

Skill becomes confidence when you use it to serve and create for others.

Culinary Arts I & II – 2 Years

If you enjoy making food and working as part of a fast-moving team, Culinary Arts gives you a professional kitchen experience. You will build food-preparation and knife skills, learn sanitation and safety, manage timing and portions, and discover how consistency and teamwork turn ingredients into a quality finished product.



SKILLS YOU WILL BUILD

- Kitchen safety and sanitation
- Knife skills
- Food preparation
- Cooking
- Recipe reading and execution
- Culinary math
- Baking and pastry fundamentals
- Meat, poultry, and seafood preparation
- Vegetable and plant-based cooking
- Stocks, soups, and sauces
- Seasoning and flavor development
- Plating and presentation
- Menu planning
- Nutrition fundamentals
- Commercial kitchen equipment
- Food cost and portion control
- Restaurant and hospitality operations
- Time management and organization
- Professionalism

STRENGTHS THAT HELP YOU SUCCEED

Measurement, fractions and basic math; food science; organization; timing; creativity; sensory awareness; ability to work accurately and efficiently in a busy environment.

WHAT SUCCESS LOOKS LIKE

Teamwork — A working kitchen requires people to coordinate timing, stations and responsibilities.

Time management — Students learn to prepare multiple items while meeting service deadlines.

Attention to detail — Measurements, sanitation, quality and portion control all require consistency.

Adaptability — Kitchen conditions change quickly, requiring students to adjust without losing quality or safety.

CREDENTIALS

- ✓ ServSafe Food Handler’s Certification
- ✓ ServSafe Manager’s Certification

CAREER DIRECTIONS

Cook, chef pathway, baker, food-service manager, catering, hospitality and restaurant entrepreneurship.

CAREER EXAMPLE

Restaurant Cook / Line Cook

MEDIAN ANNUAL WAGE

\$34,530

Staunton-Stuarts Draft area • May 2024

Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Cosmetology I & II

Creativity is only part of being a great cosmetology professional. You will develop practical skills in hair, skin and nails while learning sanitation, safety, client consultation and professional service - and see how technique, attention to detail and the way you treat people build a reputation.



SKILLS YOU WILL BUILD

- Hair cutting
- Hair
- Shampooing and scalp care
- Hair coloring
- Chemical texture services
- Hair and scalp analysis
- Skin care fundamentals
- Nail care fundamentals
- Salon safety and sanitation
- Cosmetology tools and equipment
- Client consultation
- Customer service
- Creativity and design
- Precision and attention to detail
- Salon business skills
- Professionalism

STRENGTHS THAT HELP YOU SUCCEED

Basic biology, anatomy and chemistry; visual creativity; hand-eye coordination and manual dexterity; active listening; attention to detail; interest in working directly with clients.

WHAT SUCCESS LOOKS LIKE

Communication — Students practice listening carefully to understand what a client wants.

Professionalism — Appearance, sanitation, reliability and customer service directly affect client trust.

Social awareness — Students learn to work with different personalities and respond appropriately.

Responsibility — Services require safe procedures, careful chemical use and consistent sanitation.

CREDENTIALS

- ✓ NOCTI Cosmetology
- ✓ Virginia State Cosmetology Board licensure

**Students must successfully complete a minimum of 840 hours of instruction and lab-based practice during a two-year sequence of courses to be eligible to sit for the State Board Licensing Exam. Excessive absences (excused or unexcused) will affect the student's ability to meet the minimum hour required by the State Board.*

CAREER DIRECTIONS

Cosmetologist, stylist, salon professional, nail-care pathways, salon management and entrepreneurship.

CAREER EXAMPLE

Hairstylist / Cosmetologist

MEDIAN ANNUAL WAGE

\$37,850

Virginia • May 2024

INFORMATION TECHNOLOGY

Build, connect, protect and troubleshoot the technology people and organizations depend on.



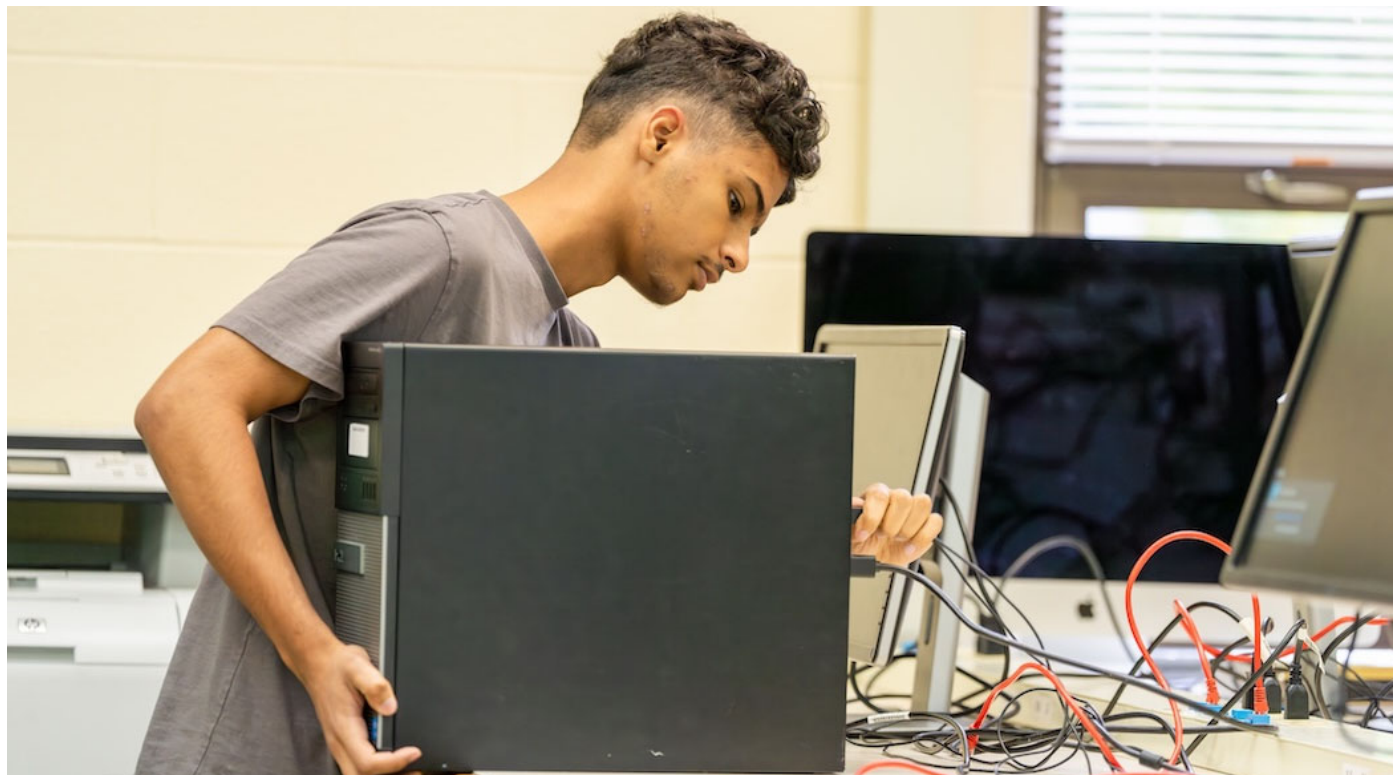
Computer Systems Technology I & II

Computer Network Software Operations I & II

Every problem you solve is evidence that you can handle what comes next.

Computer Systems Technology I & II – 1 year

Like taking technology apart, putting it together or solving the problem everyone else gives up on? You will build, configure and troubleshoot computers, install operating systems, use diagnostic tools and learn how good IT support combines technical know-how with patience and clear communication.



SKILLS YOU WILL BUILD

- Computer hardware fundamentals
- Computer assembly and disassembly
- Hardware installation and upgrades
- Operating system installation
- Software installation and configuration
- Hardware troubleshooting
- Software troubleshooting
- Diagnostic tools
- Motherboard and component identification
- Storage and file systems
- Preventive maintenance
- Technical documentation
- Help-desk and customer support
- Logical troubleshooting

STRENGTHS THAT HELP YOU SUCCEED

Logical thinking; problem solving; reading technical information; attention to detail; curiosity about hardware and software; willingness to research and keep learning.

WHAT SUCCESS LOOKS LIKE

Critical thinking — Students use logic and evidence rather than guessing when diagnosing problems.

Research — Technology requires finding, evaluating and applying technical information.

Communication — Technical knowledge must be translated into clear explanations for users and teammates.

Adaptability — Students practice continual learning because hardware and software change quickly.

CREDENTIALS

- ✓ NOCTI Computer Repair Technology
- ✓ CompTIA A+

CAREER DIRECTIONS

Computer support specialist, help-desk technician, PC technician, IT support, systems support and pathways into networking, cybersecurity and cloud technologies.

CAREER EXAMPLE

Computer User Support Specialist

MEDIAN ANNUAL WAGE

\$58,270

Staunton-Stuarts Draft area • May 2024

Computer Network Software Operations I & II – 1 year

Go behind the screen and learn how connected technology works. You will explore networking, security, remote access, virtualization, cloud concepts, scripting and documentation while learning to troubleshoot systems logically instead of simply guessing at a fix.



SKILLS YOU WILL BUILD

- Networking fundamentals
- Network hardware
- Ethernet and cabling
- IP addressing
- Network configuration
- Router and switch configuration
- Wireless networking
- Network operating systems
- User accounts
- Network troubleshooting
- Network testing tools
- Cybersecurity fundamentals
- Network security
- Servers and services
- Computer hardware and software
- Network diagrams and documentation
- Help-desk and technical support
- Logical problem

STRENGTHS THAT HELP YOU SUCCEED

Logic and systems thinking; basic math; technical reading; organization; careful documentation; persistence; interest in networks, cybersecurity, software and cloud systems.

WHAT SUCCESS LOOKS LIKE

Systems thinking — Students learn that one change can affect many parts of a network.

Documentation — Clear records help others understand configurations, changes and problems.

Problem solving — Students isolate faults and research solutions.

Teamwork — Modern IT systems are maintained by teams that must communicate and coordinate.

CREDENTIALS

- ✓ NOCTI Computer Networking
- ✓ CompTIA Network+

CAREER DIRECTIONS

Network support technician, IT support, junior systems/network roles, cybersecurity pathways, cloud support and continued IT education.

CAREER EXAMPLE

Computer Network Support Specialist

MEDIAN ANNUAL WAGE

\$57,290

Staunton-Stuarts Draft area • May 2024

ADVANCED MANUFACTURING

Use precision, automation, and fabrication skills to make and maintain the products our region needs.



Industrial Maintenance

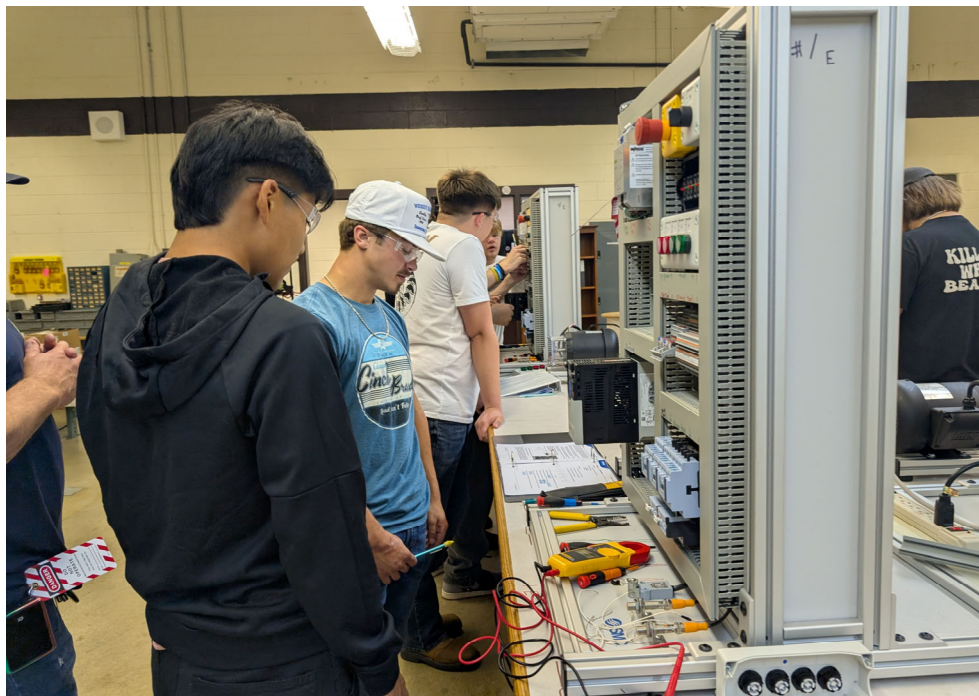
Precision Machining I & II

Welding I & II

Precision, persistence and curiosity turn ideas into real results.

Industrial Maintenance I & II – 2 years

Modern manufacturing depends on people who can keep equipment running. You will work across mechanical, electrical, pneumatic and hydraulic systems, read diagrams, take measurements and troubleshoot problems - building the versatility employers value when a machine goes down and production needs to get moving again.



SKILLS YOU WILL BUILD

- Mechanical
- Industrial electricity
- Hydraulics
- Pneumatics
- Preventive maintenance
- Troubleshooting
- Tools and testing equipment
- Basic welding and fabrication
- Precision measurement
- Blueprints and technical diagrams
- Equipment repair
- Alignment and adjustment belts, pulleys, shafts, and other components
- Automation and controls fundamentals
- Industrial safety

STRENGTHS THAT HELP YOU SUCCEED

Math and measurement; mechanical and electrical reasoning; physical science; reading schematics; systems thinking; persistence with troubleshooting and repair.

WHAT SUCCESS LOOKS LIKE

Problem solving — Equipment failures require students to identify symptoms, test causes, make corrections and verify results.

Persistence — The first solution may not work, so students learn to adjust and try again.

Attention to detail — A small wiring, setup or measurement error can affect an entire system.

Independence — Students progress toward completing increasingly complex technical work with standard supervision.

CREDENTIALS AND COLLEGE CREDIT

- ✓ OSHA 10
- ✓ EPA 608 (CFC)
- ✓ American Welding Society Welding Certifications

CAREER DIRECTIONS

Industrial maintenance technician, maintenance mechanic, electromechanical technician, automation/controls pathways, manufacturing technician and apprenticeship.

CAREER EXAMPLE

Industrial Machinery Mechanic

MEDIAN ANNUAL WAGE

\$70,150

Staunton-Stuarts Draft area • May 2024

Precision Machining I & II – 2 years

Make parts where thousandths of an inch can matter. You will learn to read drawings, measure precisely, set up machine tools, machine metal and inspect your own work while developing the focus and craftsmanship needed to make a part to specification.



SKILLS YOU WILL BUILD • Machining fundamentals • CNC machine operation • Manual machining • Blueprint reading • Precision measurement • CNC programming • Machine setup • Cutting tools • Speeds and feeds • Milling operations • Lathe operations • Workholding and part setup • CAD/CAM fundamentals • Quality control and inspection • Troubleshooting • Machining math • Machine and shop safety • Precision and attention to detail	STRENGTHS THAT HELP YOU SUCCEED Math, fractions, decimals and geometry; spatial reasoning; precision measurement; mechanical aptitude; patience; ability to focus closely on tolerances and quality. WHAT SUCCESS LOOKS LIKE Precision — Students learn to work to exact dimensions and verify their own work. Planning — Machining requires thinking through sequence, setup, tools and measurements before making a cut. Problem solving — Students adjust processes when dimensions or finishes do not meet specifications. Responsibility — Machine setup and safe operation require focus and consistent procedures.
CREDENTIALS ✓ OSHA 10 ✓ NOCTI Precision Machining ✓ Credit toward Virginia Certified Machinist Apprenticeship	

CAREER DIRECTIONS

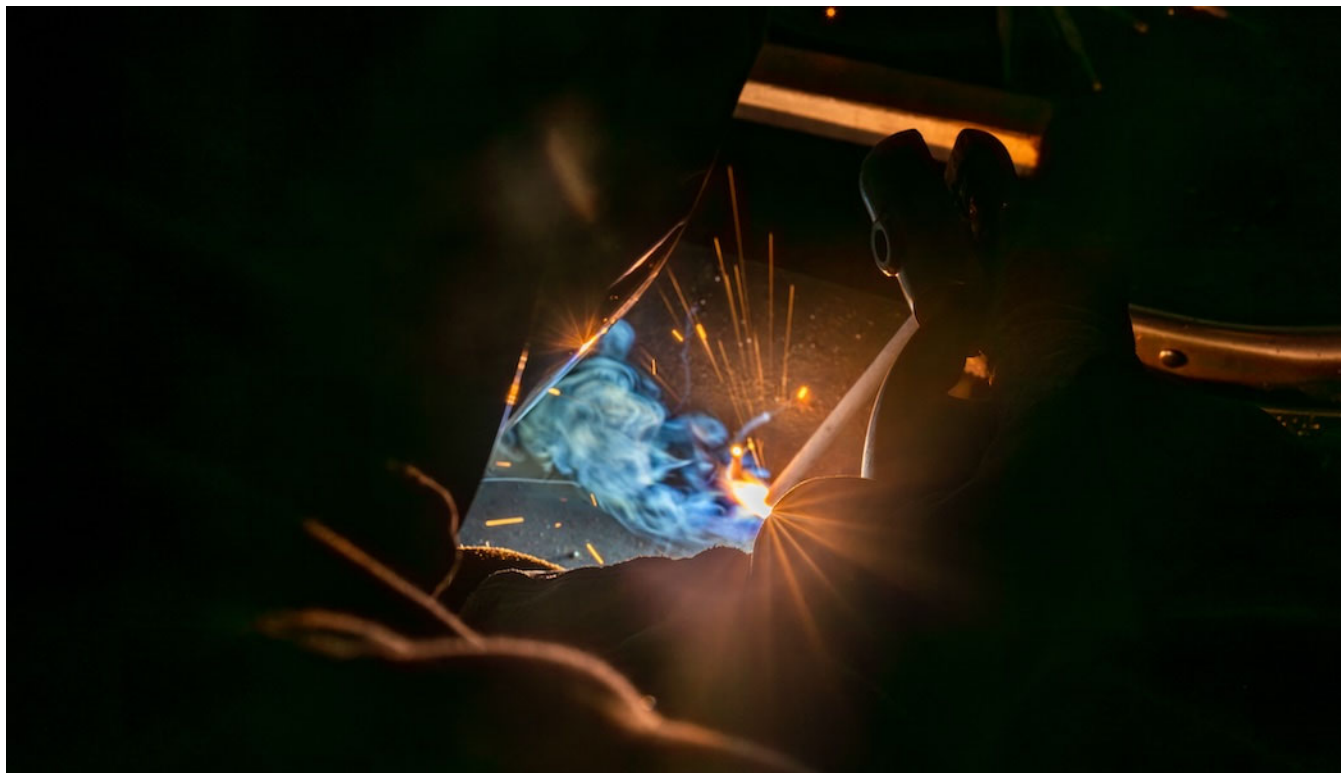
Machinist, CNC operator, manufacturing technician, tool-and-die pathways, quality technician and advanced manufacturing careers.

CAREER EXAMPLE Machinist / CNC Machinist	MEDIAN ANNUAL WAGE \$56,530 Staunton-Stuarts Draft area • May 2024
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Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Welding I & II – 2 years

Learn to join, build and fabricate with metal while seeing your skill improve in the work right in front of you. You will practice major welding processes, prepare and fit materials, read drawings and inspect your work - with an emphasis on safety, steady improvement and weld quality.



SKILLS YOU WILL BUILD

- GMAW/SMAW/FCAW/GTAW processes
- Welding positions
- Metal preparation
- Cutting processes
- Blueprint and welding-symbol
- Layout and fabrication
- Weld joint preparation
- Equipment setup
- Grinding and finishing
- Weld inspection
- Precision measurement
- Metals and materials
- Shop and welding safety
- Quality workmanship

STRENGTHS THAT HELP YOU SUCCEED

Measurement and basic geometry; spatial reasoning; hand-eye coordination; physical science concepts related to metals and heat; patience; interest in fabrication and craftsmanship.

WHAT SUCCESS LOOKS LIKE

Craftsmanship — Weld quality provides direct feedback and encourages students to refine technique.

Persistence — Skill develops through repeated practice, inspection and correction.

Attention to detail — Preparation, fit-up, settings and technique all affect the final weld.

Safety — Students build habits around PPE, equipment and awareness of others in the shop.

CREDENTIALS

- ✓ OSHA 10
- ✓ AWS certification opportunities in GMAW, SMAW, FCAW and GTAW

CAREER DIRECTIONS

Welder, fabricator, structural/industrial welding, manufacturing, maintenance and apprenticeship pathways.

CAREER EXAMPLE

Welder / Fabricator

MEDIAN ANNUAL WAGE

\$62,440

Staunton-Stuarts Draft area • May 2024

PUBLIC SERVICE

Serve communities, move essential goods and help others learn, grow, and stay safe.



Criminal Justice I & II

Firefighting I & II

Your work can protect and strengthen a community.

Criminal Justice I & II – 1 Year

Step into the world of law enforcement and public safety and learn how professionals respond to real-world situations. Through hands-on activities and scenarios, you will explore policing, criminal law, investigations, crime scenes, courts, corrections, and emergency response. You will practice observing situations, gathering information, communicating clearly, writing reports, examining evidence, and making decisions under pressure. Along the way, you will build confidence, teamwork, leadership, professionalism, and good judgment while exploring careers in law enforcement, corrections, security, investigations, and public safety.



SKILLS YOU WILL BUILD

- Law enforcement fundamentals
- Criminal law basics
- Crime scene procedures
- Evidence collection
- Investigation skills
- Observation skills
- Report writing
- Interviewing fundamentals
- Conflict management and de-escalation
- Courtroom procedures
- Corrections fundamentals
- Emergency response
- Radio and professional communication
- Ethics and integrity in criminal justice careers
- Teamwork and leadership
- Professionalism and service

STRENGTHS THAT HELP YOU SUCCEED

Reading, writing and speaking; social studies/civics; critical thinking; observation; accurate documentation; maturity; listening; interest in law, public safety and working with people.

WHAT SUCCESS LOOKS LIKE

Critical thinking — Students learn to consider evidence and multiple factors before reaching conclusions.

Communication — Listening, interviewing, speaking and writing are important public-safety skills.

Integrity — Public trust depends on ethical decisions and accurate reporting.

Conflict management — Students consider how to respond professionally when people are upset or under stress.

CREDENTIALS

- ✓ NOCTI Criminal Justice

CAREER DIRECTIONS

Law enforcement, corrections, security, dispatch/public safety, legal-support pathways and continued criminal-justice study.

CAREER EXAMPLE

Police & Sheriff's Patrol Officer

MEDIAN ANNUAL WAGE

\$60,220

Staunton-Stuarts Draft area • May 2024

Firefighting I & II – 1 Year

Firefighting is physical, technical and built around a team. Through hands-on training and realistic practice scenarios, you will learn how firefighters use protective gear, hoses, ladders, breathing equipment, tools, and teamwork to respond safely to emergencies. You will practice fire suppression, search and rescue, equipment use, emergency communication, and basic medical response while learning how to stay calm, assess a situation, and work as part of a crew. Along the way, you will build confidence, physical readiness, leadership, responsibility, and teamwork while exploring careers in firefighting, emergency services, and public safety.



SKILLS YOU WILL BUILD

- Fire service fundamentals
- Firefighter safety
- Personal protective equipment (PPE)
- Self-contained breathing apparatus (SCBA)
- Fire suppression fundamentals
- Fire hose operations
- Water supply
- Ladder skills
- Firefighting tools and equipment
- Search and rescue fundamentals
- Forcible-entry fundamentals
- Ventilation fundamentals
- Emergency scene operations
- Incident command fundamentals
- Physical readiness
- Problem-solving under pressure
- Teamwork and trust
- Professionalism and service

STRENGTHS THAT HELP YOU SUCCEED

Basic science and math skills; spatial awareness; mechanical/practical reasoning; communication; teamwork; physical stamina; ability to follow procedures and stay focused under pressure.

WHAT SUCCESS LOOKS LIKE

Teamwork — Fire service tasks depend on trusting others, communicating clearly and performing assigned roles.

Communication — Students practice giving, receiving and confirming directions in changing conditions.

Responsibility — PPE, equipment checks and safety procedures reinforce accountability.

Resilience — Training requires students to stay focused, adapt and continue working through challenging tasks.

CREDENTIALS AND COLLEGE CREDIT

- ✓ Virginia Department of Fire Programs Firefighter I and II
- ✓ American Red Cross Basic Life Support for Healthcare Providers

CAREER DIRECTIONS

Firefighter, fire/EMS pathways, emergency services, public safety and related municipal/industrial emergency-response careers.

CAREER EXAMPLE

Firefighter

MEDIAN ANNUAL WAGE

\$48,870

Staunton-Stuarts Draft area • May 2024

TRANSPORTATION, DISTRIBUTION & LOGISTICS

Keep People, Products and Possibilities Moving.



PROGRAMS

Auto Technology I & II

Collision & Repair Technology I & II

Aviation Technology I & II

Diesel Equipment Technology I & II

Logistics / Pre-CDL

Ready for the Road. Prepared for the Future.

Auto Technology I & II - 1 year

In Auto Technology, you will learn how vehicles operate and how technicians inspect, maintain, diagnose and repair them. Students learn to approach each vehicle problem as a process: gather information, inspect the vehicle, test the system, identify the cause, complete the repair and confirm that the vehicle operates correctly.



SKILLS YOU WILL BUILD

- Perform basic vehicle safety and maintenance inspections.
- Change oil and filters and check fluids, belts, hoses and tires.
- Service wheels, tires, brakes, steering and suspension systems.
- Test batteries, starting systems, charging systems and electrical circuits.
- Study engine operation, fuel delivery, ignition, cooling and emission-control systems.
- Use scan tools, digital multimeters and other diagnostic equipment.
- Read wiring diagrams, technical manuals and manufacturer service information.
- Identify symptoms, test possible causes and verify that repairs corrected the problem.
- Select and safely use hand tools, power tools, lifts and shop equipment.
- Document inspection results, recommended services and completed repairs.
- Follow safety procedures for vehicles, chemicals, tools and equipment.
- **Practice the accuracy, organization and responsibility expected in a professional automotive shop.**

CREDENTIALS

- ✓ OSHA 10
- ✓ Automotive Service Excellence (ASE) Student Certifications in Engine Repair, Automatic Transmission, Manual Drive train, Steering & Suspension, Brakes, Electrical Systems and Heating & A/C

STRENGTHS THAT HELP YOU SUCCEED

Mechanical reasoning; basic measurement; able to use basic hand tools, reading diagrams and service information; curiosity about how systems work; patience with troubleshooting.

WHAT SUCCESS LOOKS LIKE

Problem solving — A vehicle symptom becomes a puzzle: identify the problem, test likely causes, and verify the repair.

Attention to detail — Students follow specifications, service procedures and inspection steps.

Communication — Students explain problems and repairs and learn the value of clear documentation.

Responsibility — Tools, vehicles and shop safety require preparation, care, and accountability.

CAREER DIRECTIONS

Automotive service technician, maintenance technician, service advisor, parts specialist, fleet technician; skills also transfer to diesel, industrial maintenance and other mechanical fields.

CAREER EXAMPLE

Automotive Service Technician / Mechanic

MEDIAN ANNUAL WAGE

\$50,430

Staunton-Stuarts Draft area • May 2024

Aviation Maintenance Technology I & II – 2 years

Discover what it takes to keep aircraft safe and ready to fly. Through hands-on learning, you will explore aircraft structures, flight controls, engines and powerplant systems, aviation electricity, hydraulics, and basic maintenance and inspection. You will learn to use aviation tools, diagrams, and technical manuals to identify problems and complete work safely and accurately.



SKILLS YOU WILL BUILD

- Aircraft systems fundamentals
- Airframe and structural fundamentals
- Flight control systems
- Powerplant fundamentals
- Aviation electricity
- Hydraulic and pneumatic systems
- Inspection skills
- Basic maintenance procedures
- Aviation tools and equipment
- Technical documentation
- Schematics and wiring diagrams
- Troubleshooting and problem-solving
- Tool and ground safety
-

STRENGTHS THAT HELP YOU SUCCEED

Math and physical science; mechanical and electrical reasoning; spatial thinking; technical reading; precision; strong attention to procedures and safety.

WHAT SUCCESS LOOKS LIKE

Precision — Aviation work reinforces that specifications and procedures must be followed carefully.

Responsibility — Students learn a safety-first mindset around equipment and aircraft systems.

Problem solving — Mechanical systems are analyzed logically when something does not operate as expected.

Continual learning — Technical fields change, requiring curiosity and willingness to keep learning.

CREDENTIALS

- ✓ OSHA 10
- ✓ FAA Part 107 Remote Pilot Certificate

CAREER DIRECTIONS

Aviation maintenance and support careers, aircraft manufacturing, aerospace production, mechanical/electrical technician roles and further aviation study.

CAREER EXAMPLE

Aircraft Mechanic / Service Technician

MEDIAN ANNUAL WAGE

\$80,770

Virginia • May 2024

Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Collision & Repair Technology I & II – 1 year

Turn damaged vehicles into finished work you can be proud of. You will learn the steps behind collision repair and refinishing - from preparing surfaces and using tools to mixing paint, operating spray equipment and inspecting the finished job for quality.



- Collision damage assessment
- Body panel repair
- Panel removal and replacement
- Metalworking skills
- Plastic repair fundamentals
- Vehicle structure fundamentals
- Measuring and alignment
- Welding and joining fundamentals
- Surface preparation
- Paint and refinishing fundamentals
- Paint mixing and color matching
- Spray equipment operation
- Masking and preparation
- Finish inspection and correction
- Hand, power, and body tool use
- Technical information
- Vehicle disassembly and reassembly
- Problem-solving
- Shop and refinishing safety
- Precision and attention to detail
- Quality workmanship
- Organization and teamwork

STRENGTHS THAT HELP YOU SUCCEED

Visual-spatial thinking; measurement; color and visual detail; hand-eye coordination; patience; interest in restoring, repairing and finishing work to a high standard.

WHAT SUCCESS LOOKS LIKE

Craftsmanship — Visible finished work teaches students that quality, patience and precision matter.

Attention to detail — Surface preparation and refinishing require careful sequencing and inspection.

Problem solving — Students determine repair approaches and correct defects.

Responsibility — Tools, vehicles and shop safety require preparation, care, and accountability.

CREDENTIALS

- ✓ OSHA 10
- ✓ Automotive Service Excellence (ASE) Student Certifications in Painting and Refinishing, Non-Structural Analysis and Damage Repair, Structural Analysis and Damage Repair, Mechanical and Electrical Components

CAREER DIRECTIONS

Collision repair technician, refinishing technician, estimator, detailer, restoration technician and related automotive careers.

CAREER EXAMPLE

Automotive Body & Collision Repairer

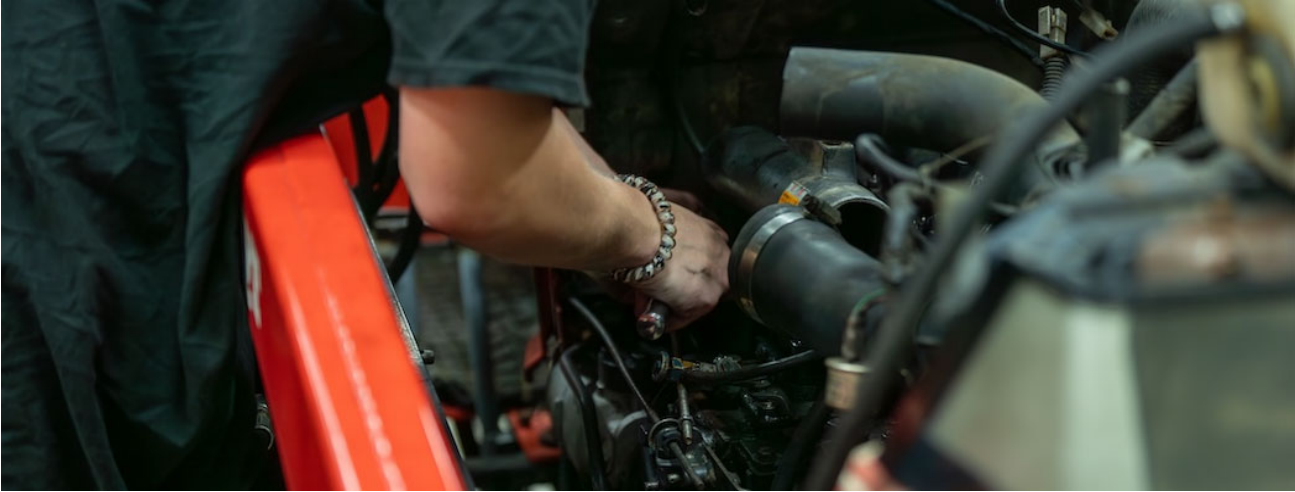
MEDIAN ANNUAL WAGE

\$48,150

Staunton-Stuarts Draft area • May 2024

Diesel Equipment Technology I & II – 2 years

Get hands-on with the engines and systems that power trucks and heavy equipment. You will learn how diesel engines and major mechanical systems work, practice taking components apart and putting them back together, and perform basic service and repair procedures. You will also use diagnostic tools and technical manuals to troubleshoot problems, determine what is causing them, and identify the right repair. Along the way, you will build the patience and attention to detail needed to take a problem from symptom to solution while learning to work safely in a professional shop.



SKILLS YOU WILL BUILD • Diesel engine fundamentals • Engine inspection and maintenance • Mechanical disassembly and reassembly • Fuel system fundamentals • Electrical system basics • Cooling and lubrication systems • Air intake and exhaust systems • Hydraulic system fundamentals • Brake, steering, and suspension basics • Preventive maintenance • Troubleshooting and diagnostics • Diagnostic tools and testing equipment • Technical manuals and service information • Hand and power tool use • Precision measurement • Shop and equipment safety • Attention to detail • Teamwork and communication	STRENGTHS THAT HELP YOU SUCCEED Mechanical reasoning; basic measurement; physical science; reading diagrams and manuals; persistence with troubleshooting; comfort working with large equipment. WHAT SUCCESS LOOKS LIKE Persistence — Complex equipment may require several diagnostic steps before the cause is found. Problem solving — Students move from symptoms to causes and possible corrections. Teamwork — Large equipment and shop tasks often require coordinated work. Reliability — Industry depends on equipment being repaired correctly and returned to service.
CREDENTIALS ✓ OSHA 10 ✓ Automotive Service Excellence (ASE) Student Certifications in Brakes, Diesel Engines, Electrical/Electronic Systems, Suspension & Steering, Inspection Maintenance & Minor Repair	

CAREER DIRECTIONS
Diesel technician, heavy-equipment technician, fleet maintenance, agricultural equipment service, transportation maintenance and related mechanical careers.

CAREER EXAMPLE Diesel Engine Specialist	MEDIAN ANNUAL WAGE \$54,020 Staunton-Stuarts Draft area • May 2024
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Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Pre-CDL/Logistics – 12th Graders Only

VCTC + BRCC NextGen Trucking Partnership

A CAREER. A PURPOSE.
THAT DRIVES YOU FORWARD.

TRAIN.
Build skills.
Earn credentials.

CONNECT.
Hands-on training.
Industry connections.

EXPERIENCE.
Real-world learning.
Real opportunities.

DRIVE.
Your future starts
on the road.

BUILDING FUTURES, SHAPING CAREERS

Next Gen Trucking is a collaborative program
proudly sponsored by **Blue Ridge Community College**
& the **Valley Career Technical Center**.

CONTACT INFORMATION
540-245-5002

Blue Ridge
Community College

**VALLEY CAREER &
TECHNICAL CENTER**
WHERE PREPARATION MEETS OPPORTUNITY

Get a head start on your Commercial Driver’s License (CDL) training while still in high school!

Through a partnership between VCTC and Blue Ridge Community College (BRCC), students in the NextGen Trucking program **can complete approximately the first one-third of the CDL training pathway at VCTC.**

You will build foundational skills in commercial vehicle safety, pre-trip inspections, vehicle systems, regulations, trip planning, and professional driving practices.

After successfully completing the VCTC portion, you will be prepared to continue the remaining CDL training through BRCC immediately after you graduate.

This partnership gives you a chance to start your training early, gain experience, and take a meaningful first step toward a career in trucking, transportation, and logistics.

CAREER DIRECTIONS

Commercial driving, transportation, logistics, warehousing/distribution and supply-chain careers.

CAREER EXAMPLE Heavy / Tractor-Trailer Truck Driver	MEDIAN ANNUAL WAGE \$49,560 Staunton-Stuarts Draft area • May 2024
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Career and wage information is a planning example. Earnings vary by experience, credentials, employer, schedule and location.

Learning Beyond the Classroom

CLINICAL & FIELD EXPERIENCES

Selected programs offer authentic opportunities to observe professionals and perform supervised job functions in workplace settings.

DUAL ENROLLMENT

Selected programs include Blue Ridge Community College coursework during the school day. Confirm exact 2027-28 courses, eligibility, tuition and availability with your counselor.

WORK-BASED LEARNING

Eligible students may connect classroom learning with supervised work experience related to their program.

REGISTERED YOUTH APPRENTICESHIP

Youth apprenticeship combines school-based and work-based learning while students build industry-recognized competencies.

SkillsUSA

SkillsUSA empowers its members to become world-class workers, leaders and responsible American citizens. SkillsUSA improves the quality of our nation's future skilled workforce through the development of Framework skills that include personal, workplace and technical skills grounded in academics. It was formerly known as VICA (Vocational Industrial Clubs of America).



Health Occupations Students of America (HOSA National)

HOSA is a national student organization endorsed by the U.S. Department of Education and the Health Science Technology Education (HSTE) Division of ACTE. HOSA's two-fold mission is to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people. HOSA's goal is to encourage all health occupations instructors and students to join and be actively involved in the HSTE-HOSA Partnership.



Future Farmers of America

FFA is an intracurricular student organization for those interested in agriculture and leadership. The letters "FFA" stand for Future Farmers of America. FFA is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agricultural education.



National Technical Honor Society (NTHS)

NTHS is the acknowledged leader in the recognition of outstanding student achievement in career and technical education. NTHS encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps top students find success in today's highly competitive workplace.



The Future Starts Here

We bring people together to provide opportunities that would be difficult for any one community to offer alone. Educators collaborate. Businesses and industry partners help shape programs. Students learn alongside peers from across the region.

The answer is visible every day—in a student discovering a love of science, an artist finding their voice, a future machinist mastering a CNC machine, or a young person earning the credential that opens the door to a career.

We may be easy to overlook from the road. But inside, students are discovering who they are and who they can become. Some will become scientists, engineers, artists, teachers, healthcare professionals, technicians, entrepreneurs, and skilled tradespeople.

Some will leave the Valley and bring their experiences with them. Most will stay, build careers, raise families, start businesses, and strengthen the communities that helped prepare them.

It Is More Than What We Do. It Is Who We Are.

At the heart of our school are good people who care deeply about students and about the future of our community.

They are practical. They are professional.

They believe in hard work, dependability, responsibility, craftsmanship, and doing things the right way.

They understand that success isn't always about taking the easiest path—it is about showing up, learning, solving problems, and doing your best.

Those are more than skills.

They are values.

And those values are woven into our culture.

Whether students are preparing for college, an apprenticeship, a career, or the next chapter of their lives, they leave with more than knowledge. They leave with confidence, skills, relationships, and a sense of what is possible.



Students are not only preparing for what comes next.
They are beginning to believe they can meet it.

