



Career Technical Education

Curiosity: The  of Learning



NTC is CTE

At the Nashua Technology Center, Career and Technical Education isn't just part of what we do...**it's the heart of NTC.** The Nashua Technology Center empowers students with the skills and knowledge needed for career success through innovative, hands-on learning. Our programs are academically rigorous, aligned with workforce needs, and designed to build creativity, leadership, and lifelong learning.

As one of the state's largest high school Career and Technical Education (CTE) centers, NTC serves over 1,300 students and has a 40-year tradition of helping students discover their strengths and prepare for college, the military, or the workforce.

This brochure highlights the 13 career pathway programs available to students from Nashua High School North and South, as well as from surrounding area high schools, including Alvirne, Hollis-Brookline, Merrimack, Milford, and Souhegan.

How do I get more information?

Explore the Brochure • Email Us • Visit the NTC Website • Follow on Instagram
Talk to Your Counselor • Stop by the Nashua North or South Career Center

- Advanced Manufacturing
- Automotive Technology
- Biotechnology & Biomedical Science
- Business Pathway Careers in Education
- Computer Networking & Cybersecurity

- Cosmetology
- Culinary Arts
- Electrical Technology
- Engineering Pathways

- Health Sciences
- Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)
- Video Production & Broadcasting

What our students are saying...

"I joined NTC because I wanted a program that went beyond regular high school STEM classes by allowing me to explore and test out career options and pathways that interest me."

• **Rachel Riddell, Biotechnology & Biomedical Science, Nashua High School North**



"I want to be a PA someday and the Health Sciences program prepares me for future college and career choices by showing me the steps involved and giving me opportunities to explore that pathway. Choosing NTC was the best option for me!"

• **Nevaeh Eppolito,
Health Sciences, Nashua High School South**

When I first toured the NTC I realized that this was the place for me because it's a great mix of shop and classroom learning time, plus I'm getting the opportunity to work in the industry. It's been a really great experience that has inspired me to pursue this career."

• **Jordan Lawrence,
Automotive Technology, Home School Student**

"I have a passion for teaching children and I wanted to start learning how to do that as soon as possible. NTC lets me try out that career choice in a risk-free environment before committing to expensive college choices."

• **Leo Weston,
Careers in Education, Merrimack High School**

Advanced Manufacturing

Career Paths Include:

- Machine Programmer
- CNC Machinist
- Automation Engineer & Manufacturing
- Engineering Technician



Our Advanced Manufacturing program equips you with the skills for today's high tech manufacturing careers. You'll gain hands on experience in measurement, layout, inspection, CNC programming, CAD, automation, robotics, 3D printing, and CAM (computer aided manufacturing).

Along the way, you'll also explore welding, manual lathes and milling machines, injection molding, and effective customer communication. In your second year, you'll have the opportunity to take part in **extended work based learning experiences** - connecting classroom knowledge with real world industry practice.

Automotive Technology

Career Paths Include:

- Automotive Technician
- Diesel Technician
- Shop Owner
- Marine & Powersports Technician
- Parts Technician
- Mechanical Engineer



As an Automotive Technology student, you'll build hands on skills in brake systems, steering and suspension systems, electrical systems, computerized diagnostic testing, and performance engineering. Working in our fully equipped shop with professional grade tools, you'll learn to troubleshoot, repair, and maintain vehicles while gaining real world experience through an 8 week internship with a local dealership and other work based learning opportunities.

Our program follows NATEF standards and prepares you for industry-recognized credentials including; **ASE Certification, Ford ACE Technician Certification, and Snap-on Meter and Scanner Certification** - fully equipping you with the skills and certifications to succeed in a high-demand industry.

Biotechnology & Biomedical Science

Career Paths Include:

- Biomedical Engineer
- Biochemist
- Pharmacist
- Forensic Scientist
- Physician
- Microbiologist
- Nurse



In our Biotechnology & Biomedical Science program, you'll use advanced research tools from both chemistry and biology to tackle real-world challenges in the medical, agricultural, and pharmaceutical fields. You'll study microbiology, cellular biology, and molecular biology, while mastering lab techniques like using analytical equipment, culturing and characterizing cells, preparing solutions, and designing experiments to interpret data. You'll also explore cutting-edge topics such as genomics, proteomics, and stem cell biology.

As a second-year student, you can complete an independent research project and even compete in the New Hampshire Science and Engineering Expo. **Along the way, you'll earn up to 8 college credits, gain industry-recognized credentials, and participate in work-based learning to build real-world experience and prepare for a future.**

Business Pathway

Career Paths Include:

- Entrepreneur
- Small Business Owner
- Business Manager
- Certified Public Accountant (CPA)
- Financial Analyst
- Marketing Manager
- Research Analyst



In our Business Pathway program, you'll explore the many worlds of business—building a foundation in accounting, ethics, entrepreneurship, finance, management, and marketing through hands-on, project-based learning. You'll work with industry recognized software while mastering the concepts, processes, and skills needed to develop and manage business operations, along with the tools and strategies to plan, monitor, and control financial resources and apply leadership and management principles.

Areas of focus include entrepreneurship, small business management, operations, accounting, global business and finance, marketing, and sales. **Students can earn dual enrollment college credits, participate in work-based learning opportunities, join DECA, and qualify for the NTC Business Honor Society.**

Careers In Education

Graduate Ready Careers:

- K-5 Teacher
- School Counselor
- Special Education Teacher
- Child Psychologist
- Occupational Therapist
- Child Life Specialist
- Social Worker



If you're interested in shaping young minds, our two year Careers in Education program gives you a strong foundation in modern teaching theory and techniques. You'll learn about child growth and development and its impact on learning, how to create engaging learning experiences, effective behavior management, and ways to support all learners.

You'll apply your skills in real settings—working with professional mentors in the Purple Panther Preschool at Nashua High School South and in K-5 classrooms at local elementary schools. **Students can earn up to 9 college credits, complete 200+ hours of field experience, and gain leadership and community service opportunities.**

Computer Networking & Cybersecurity

Graduate Ready Careers:

- Network Technician
- Systems Analyst
- Systems Test Engineer
- Software Development & Installation Specialist
- Telecommunications Specialist



This fast paced, two year program teaches you to design, develop, support, and manage electronic communications and networking systems. You'll explore the strengths and weaknesses of different network types and the protocols that keep them running, all through a curriculum based on the globally recognized Cisco Academy—preparing you to become a Level 1 Network Engineer.

You'll gain skills in internet technologies, network security and customization, routing and switching programming, computer science theory, and binary and hexadecimal coding. **Students can earn up to 11 college credits and work toward Cisco Associate and Professional Certifications.**



Cosmetology

Career Paths Include:

- Salon Owner
- Hair Designer
- Salon Manager
- Platform Artist / Demonstrator



In this two-year program, you'll gain hands-on training in hair cutting, styling, coloring, and waving, as well as scalp treatments, manicures, basic skin care, and makeup application. You'll also study the principles of hair design while building the technical and creative skills needed for a successful career.

Through guest speakers, competitions, and field trips, you'll experience the beauty industry firsthand and build valuable professional connections. **Successful completion provides up to 360 training hours toward your New Hampshire Cosmetology license.** You'll also have the opportunity to showcase your talent in state skill competitions.

Culinary

Career Paths Include:

- Chef/Cook
- Restaurant or Hotel Manager
- Restaurant Owner
- Caterer
- Food Service Director
- Nutritionist
- Food Scientist



As a Culinary student, you'll train in a commercial kitchen using restaurant-grade equipment while mastering the processes and safety practices involved in selecting, purchasing, and preparing high-quality food products. This two-year program builds the skills, work habits, and confidence needed to succeed in top culinary schools and the food industry.

Accredited by the American Culinary Federation Educational Foundation, you'll develop expertise in food preparation, safety and sanitation, large-scale meal planning, and professional equipment operation. **Earn up to 9 college credits, obtain ServSafe Certification, compete in SkillsUSA, and connect with the Professional Chefs of New Hampshire.**

Electrical Technology

Career Paths Include:

- Journeyman/Master Electrician
- Electrical Engineer
- Electrical Drafting Specialist
- Wind Turbine Technician
- Photovoltaic Systems Installer



In this program, you'll engage in simulated worksite scenarios to apply electrical theory and follow electrical codes. Training covers modern electrical devices and equipment used in residential, commercial, and industrial settings.

Key areas of study include electrical safety, residential and commercial wiring, and electrical theory.

Successful completers earn 600 hours of classroom and work credit toward their journeyman's license, receive their NH Electrical Apprentice card, and obtain OSHA 10-hour safety certification.

Engineering Pathways

Career Paths Include:

- Chemical Engineer
- Electrical Engineer
- Mechanical Engineer
- Software Engineer
- Civil Engineer
- Manufacturing Engineer



Explore the dynamic world of engineers, architects, manufacturers, and design technicians through this hands-on program. In Introduction to Engineering Design (IED), you'll learn the engineering design process, applying math, science, and engineering standards to solve real-world problems.

In Principles of Engineering (POE), you'll discover a broad range of engineering fields, while the Engineering Design and Development capstone challenges you to identify a problem, research, design, test, and present a solution to a panel of engineers.

Following the Project Lead The Way curriculum, you'll gain skills in problem solving, product design, robotics, programming, prototyping, and 3D modeling software. **Earn up to 6 college credits, and engage in valuable industry networking.**

Health Sciences

Career Paths Include:

- Nurse
- Physician
- Lab Technician
- Medical Assistant
- Dentist
- Physical or Occupational Therapist
- Radiologist



Our two-year Health Sciences program builds a strong foundation of knowledge and hands-on experience to help you focus your interests and launch a career in healthcare. You'll participate in work-based learning both on-site in our modern facilities and through internships and job shadows with community partners.

Study topics include anatomy and physiology, medical terminology, nursing skills, dental and physical therapy techniques.

Second-year students can prepare for Licensed Nursing Assistant (LNA) certification. **Earn up to 3 college credits (Medical Terminology) and certifications such as American Heart Association CPR/Basic Life Support, LNA, and First Aid.**

Heating, Ventilation, Air Conditioning & Refrigeration (HVACR)

Career Paths Include:

- HVACR Technician
- Design Engineer
- Green Technology Specialist
- Pipefitter
- Sheet Metal Worker
- Energy Auditor



In this program, you'll learn the fundamentals of HVACR systems through hands-on activities focused on heating, cooling, refrigeration, pipefitting, ventilation, and ductwork. You'll gain experience with hand and power tools—including state-of-the-art press technology—while studying piping, plumbing basics, and electrical fundamentals.

Key skills include brazing, soldering, pipe fitting, system design and management, preventative maintenance, and basic electricity and wiring.

Earn 3 college credits, OSHA 10 Safety Certification, EPA 608 Certification, Swagelok Certification, and Viega Systems Press Fitting Certification.

Video Production & Broadcasting

Career Paths Include:

- Media Technician
- Entertainment Producer/Director
- Video Editor/Videographer
- Sound Technician
- New Media Producer



Our program prepares you for careers in entertainment, news, and corporate media. You'll master camera work, audio, lighting, editing, and pre-production in our state-of-the-art broadcast facility.

Students have the opportunity to earn NOCTI certification, a valuable industry credential. Learn to produce professional-quality video and television projects using industry-standard equipment.

Earn 3 college credits, participate in work-based learning and media internships, and build a college- and career-ready portfolio.

CTE: Discovery Courses

Nashua Technology Center (NTC) supports career exploration & development courses for Nashua North & South students. The following CTE Discovery Courses are currently being offered:

- Tech Ed
- Woodworking I
- Woodworking II
- Power Mechanics I
- Power Mechanics II
- Electricity/Electronics
- Marine Robotics
- Graphic Design I
- Graphic Design II
- Robotics using Vex Drone Technology
- FACS Parenting I
- Interior Design
- On Your Own
- Human Relations
- Lifespan Nutrition
- Foods Technology
- Exploring Contemporary Cooking
- Child Growth and Development
- Intro to Business
- Business
- Desktop Publishing
- Digital Apps
- Communication Personal Finance



◆ For a full list of CTE Discovery Courses offered, please check the Nashua High School Course Selection Catalog.



Career & Technical Education

**Real Skills.
Real Experience.
Real Futures.**

Today's Career & Technical Education (CTE) prepares students for success by connecting classroom learning to real career goals. Through project-based learning, job shadows, internships, and other work-based experiences, students build hands-on skills while developing strong work ethics, professionalism, and employability traits. CTE programs also provide career pathway guidance and help students plan for postsecondary education.

CTE propels students down meaningful career pathways by encouraging a strategic approach to education and career choices. Students can earn college credits, gain industry-recognized certifications, and accumulate licensing hours that give them a jump start in their chosen field—all while receiving an authentic, career-focused education.

Students train in modern facilities equipped with industry-grade tools and technology, led by accomplished instructors with real-world experience. They also gain access to valuable industry and community networks, plus opportunities to participate in state and national co-curricular leadership organizations (CTSOs), building both skill and confidence for the future.



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MESSAGE FROM NTC TEACHERS AND STAFF: No matter your passion or interest, our CTE programs are designed to provide you with real-world skills and a structured pathway to exciting and fulfilling careers. The NTC offers hands-on learning, industry-relevant curriculum, dedicated and experienced faculty, state-of-the-art facilities, career guidance and support, and CTE Discovery Courses. To learn more, email us at ntcinfo@nashua.edu, attend an information session, or schedule a tour with our amazing NTC student ambassadors.

 ntcinfo@nashua.edu

 nashua.edu

 [@nashua_technology_center](https://www.instagram.com/nashua_technology_center)



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