

MCCANN **TECHNICAL SCHOOL**











HIGH SCHOOL CATALOG







OUR GOAL IS YOUR SUCCESS

SUPERINTENDENT'S LETTER

A letter from Superintendent James J. Brosnan

McCann Technical School has been providing quality technical training and an excellent academic education to students from our seven member communities for more than sixty years. We have an outstanding reputation throughout the Commonwealth, strong partnerships with numerous area employers, and a dedicated and caring faculty. Still, there are a number of misconceptions about what technical education is, and specifically, how it is delivered at McCann.

You are making an important decision about your future when you choose between attending an academic high school and coming to McCann. Our purpose is to help you make the choice that is right for you. In the pages that follow, and especially on our website, we will introduce you to our school and the opportunities available to our students. You may be surprised to learn that:

McCann students receive "two educations in one". Our students receive the same amount of academic instruction as students enrolled in academic high schools, plus authentic, hands-on instruction in a chosen technical area.

More than seventy percent of our graduates go directly on to college. Some of these students earn college credits while at McCann through Project Lead the Way, articulation agreements and dual enrollment.

Many of our students participate in the co-op program, which allows them to spend weeks of paid employment in their technical major with area businesses.

Graduates who choose to enter the workforce directly after McCann typically have no difficulty obtaining skilled employment in their field.

Our postsecondary programs in dental assisting, medical assisting, surgical technology, practical nursing and cosmetology provide outstanding educational opportunities for area high school graduates.

Our dedication to your future is reflected in our state-of-the-art equipment, our well-maintained facilities, and our commitment to quality education and individual attention provided by a talented and diversified professional staff. We believe in **rigor** and **relevance** for all studies, measuring the **results** of student success, and in building **relationships** throughout our school community. With our students, parents, teachers, and professionals from local businesses and industry working toward one goal, **McCann Technical School is the right choice to prepare you for success.**

History

McCann Technical School opened in 1962 and for the past 60 years has offered quality secondary and postsecondary technical education to generations of area citizens. The school is named for its visionary founder, Charles H. McCann, and continues to evolve offering 9 secondary and 5 postsecondary programs with an enrollment of approximately 550 students.



Administration

James J. Brosnan, BA, MEd, CAGS, Superintendent Justin Kratz, BA, MEd, Principal Keith Daigneault BS, MEd, Assistant Principal Kristin Steiner, BS, MEd, Director Student Services

School Committee

Joseph Allard, Adams Richard Bernardi, Clarksburg Laila Boucher, Williamstown Peter Breen, North Adams George Canales, North Adams William Craig, Cheshire William Diamond, North Adams Heidi Dugal, Florida Daniel Maloney, Jr., Adams Kimberly Oakes, Monroe Diane Parsons, North Adams Dr. Robert Reilly, Lanesborough Susan Reinhardt, Savoy Gary Rivers, North Adams Bruce Shepley, Adams David Westall, Williamstown

MISSION STATEMENT

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PHILOSOPHY AND GOALS

Mission

The mission of McCann Technical School is to graduate technically skilled, academically prepared, and socially responsible individuals ready to meet the demands of the 21st century.

Vision

McCann Technical School is committed to being the leader of quality technical education and academic achievement in the Commonwealth of Massachusetts.

Educational Philosophy

The school community will create a learning environment that motivates and actively engages all students in mastering rigorous academic and technical curricula. Our educational philosophy is sustained by faculty, staff, and administrators dedicated to a student-centered focus through continuous improvement. Student growth and development are promoted by instilling the following core values in our students:

Respect for self, others, and the learning environment promotes a positive learning experience for all students.

Effort is demonstrated through an applied work ethic that includes punctuality, improvement, and a determination to succeed.

Accountability develops personal responsibility for both behavior and learning.

Communication facilitates collaboration, promotes selfadvocacy, and develops positive relationships.

Honor requires students to act with integrity, honesty, positivity, and empathy for others.

Goals

- To increase the percentage of students performing at the proficient and advanced MCAS levels.
- To increase the utilization of data to improve student performance.
- To engage students through dynamic and technologically integrated teaching strategies.
- To implement a rigorous and relevant curriculum that is aligned to the academic and technical Massachusetts Curriculum Frameworks and Common Core standards.
- To align technical programs to national standards and accreditation requirements, allowing students to obtain relevant licensure/ certifications.
- To promote environmental awareness through green initiatives.
- To develop recruiting strategies to expand community awareness.

Northern Berkshire Vocational Regional School District maintains and promotes a policy of non-discrimination on the basis of race, color, sex, gender identity, religion, national origin, sexual orientation, age, disability, genetic information, homelessness, marital status, and veteran status.

PROJECT LEAD THE WAY REPLTW

PLTW is the nation's leading science, technology, engineering, and mathematics (STEM) solution in over 8,000 schools across the U.S. The Project Lead The Way curriculum gives students a chance to apply what they know, identify a problem, find unique solutions, and lead their own learning. Whether a student is curious to understand more about engineering, has decided to pursue it as a career, or simply wants to learn to think critically, work collaboratively, and explore how mathematics and science work in everyday life, the PLTW Engineering program provides a track for success.

PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program's courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

Students engage in the engineering design process and develop vital skills including teamwork, communication, and critical thinking. Students use the same industry-leading technology and software as the world's top companies. The exciting and challenging fields of engineering come alive in the PLTW program which is designed to prepare students for careers or postsecondary study of STEM fields, as well as provide the opportunity to gain college credit while in high school. McCann students enrolled in PLTW take college-level classes; Introduction to Engineering Design in grade 10, Principles of Engineering in grade 11, and AP Computer Science Principles in either grade 11 or grade 12.

DRONES & ROBOTICS

Our Robotics & Drone Club offers students an opportunity to work with new technology by performing design challenges. Teams use a modular robotics platform – powered by Android technology – to design, build and compete. Students gain hands-on programming and rapid prototyping experience, apply real-world mathematics and science concepts, and develop problem-solving skills. Robotics, coupled with drone technology, is an exciting field with applications across all industry sectors. The Robotics & Drone Club is open to all students and offers an opportunity for them to learn sound engineering principles and programming techniques in a fun, collaborative format.



SKILLSUSA

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. A nonprofit national education association, SkillsUSA serves middleschool, high-school and college/postsecondary students preparing for careers in trade, technical and skilled service occupations. SkillsUSA serves more than 333,527 students and instructors annually. This includes 19,019 instructors who join as professional members. Including alumni, SkillsUSA membership totals over 394,000. SkillsUSA has served nearly 14 million annual members cumulatively since 1965 and is recognized by the U.S. Department of Education and the U.S. Department of Labor as a successful model of employer-driven workforce development. SkillsUSA prepares America's high performance workers. It provides quality education experiences for students in leadership, teamwork, citizenship and character development. It builds and reinforces self-confidence, work attitudes and communications skills. It emphasizes total quality at work, high ethical standards, superior work skills, life-long education and pride in the dignity of work. SkillsUSA also promotes understanding of the free enterprise system and involvement in community service activities and helps students excel. The SkillsUSA Framework, which impacts the lives of America's future workforce through the development of personal, workplace, and technical skills grounded in academics, reveals how career and technical education programs and SkillsUSA are relevant in today's economy. Pillars of the Framework include; innovative programming, quality instruction, and industry partnerships focused on preparing students to succeed at work and in life.

ABOUT SKILLSUSA MASSACHUSETTS

SkillsUSA Massachusetts serves more than 34,000 students, teacher and administrators within 51 high school and college programs. SkillsUSA Massachusetts programs include local and state competitions in which students demonstrate occupational and leadership skills. During the annual State Leadership & Skills Conference, more than 2,500 students compete in 86 occupational and leadership skill areas. Gold medalists from our state proceed to join more than 4,000 students to compete in the annual national-level SkillsUSA Championships. The Professional Development Program is a self-paced curriculum for secondary and college students. It teaches skills such as effective communication and management, teamwork, network, workplace ethnics, job interviewing and more. The curriculum involves local industry and academics and can be used in day-trades, apprenticeship training, cooperative education, school-to-work, academic and special needs programs.







McCann Tech students in the business technology and information technology programs have participated in Business Professionals of America (BPA) since September 2005. BPA's mission is to develop and empower student leaders to discover their passion and change the world by creating unmatched opportunities in learning, professional growth and service. As a co-curricular organization, Business Professionals of America has the ability to enhance student participation in professional, civic, service and social endeavors. Members participate in these activities to accomplish their goals of self-improvement, leadership development, professionalism, community service, career development, public relations, student cooperation, safety and health.

The organization's activities and programs complement classroom instruction by giving students practical experience through application of the skills learned at school. BPA is contributing to the preparation of a world-class workforce through the advancement of leadership, citizenship, academic, and technological skills.

The BPA State Leadership Conference is held in Framingham, MA each year where McCann students have competed in a variety of business and office related competitions within the finance, administrative support, human resources/ management, and information technology competitions. In the past, students have placed extremely well at the state level and held leadership roles serving on state or national officer teams.

If students qualify for the national competition, they may travel to exciting places each spring including Orlando, FL; New York City; Dallas, TX; Anaheim, CA; Chicago, IL; Washington DC; and Boston, MA to join over 5,000 other conference attendees from across the nation to participate in business skills competitions, workshops, general sessions and may participate in the National Leadership (Internship) Academy and National Officer elections. The Torch Awards and BPA Cares Programs recognize students and chapters, respectively, for their leadership and service to their chapter and community.





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COOPERATIVE WORK EXPERIENCE

Cooperative education is a program of vocational technical education for students who, through a cooperative arrangement between the school and employers, receive instruction, including related vocational instruction, by the alternating of study in school with a job in the occupation field. Such instruction shall be planned and supervised by the school and the employer so that each contributes to the student's education and employability. Work periods will be on alternate weeks during the school year. The experiences gained through cooperative education are critically beneficial to graduates entering the workforce, continuing their collegiate education or entering into military service.

COOPERATIVE EDUCATIONAL GOALS

- Orient and familiarize the student with an actual work situation
- Provide the student an opportunity to observe, experience, and analyze work which is directly related to his or her training
- Provide the student exposure to personnel, equipment, and procedures different from those experienced in the school setting
- Help the student bridge a gap between school and employment
- Provide employers the opportunity to enhance the training curriculum
- Offer suggestions to the instructor regarding ways to improve the program
- Bring industry, business, and education closer together in sharing the responsibilities for preparing students to enter the world of work



PROGRAM ADVISORY COMMITTEE

McCann Technical School is committed to excellence in our educational programs. Program advisory committees are business and industry partners who meet at least twice annually and provide us with insight into the latest trends that allow us to keep our curriculum and equipment up to modern standards. Every technical program has its own committee dedicated to maintaining and enhancing our level of excellence who, in addition to the Fall and Spring meetings, keep connected informally throughout the year. Keeping us focused on improvement and availing our students of job placement and related educational experiences.





M anufacturing technicians design and create precision parts and tools that are essential to an enormous number of industries ranging from aeronautics, plastics, shipbuilding, and engineering, among others. These parts and tools are manufactured through the use of lathes, milling machines, grinders, and robots, all of which are Computer Numerically Controlled (CNC) machines. The advanced manufacturing program provides students the opportunity to learn all the skills demanded of the 21st century manufacturing technician. Students follow a course sequence that starts with the basics of machining and progresses to advanced multi-axis CNC programming, setup and operation, and robotics and automation. Qualified and skilled technicians are presently in high demand and students completing our program are ready to immediately enter the workforce or continue their education in college.





The advanced manufacturing program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at

https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Students completing the advanced manufacturing program are ready to pursue a career as a precision machinist, machine tool salesperson, CNC operator, prototype machinist, tool and die maker, CNC programmer, quality control technician or EDM operator. With additional education advanced manufacturing students can continue in careers such as plastics engineer, mechanical engineer, advanced manufacturing engineer, and industrial engineer.



Certification and Affiliations

Students completing the advanced manufacturing program are eligible to receive the following certifications:

- SkillsUSA Work Force Ready System certification
- MACWIC Level I and II certificates
- Mastercam and Solidworks certifications
- The U.S. Department of Labor Occupational Safety and Health (OSHA) General Industry Safety and Health certification



he automotive technology program prepares students in all entry-level phases of the automotive industry necessary to service and repair today's modern vehicles. Training includes foundations and safety and all 8 ASE areas including engine repair, automatic transmission and transaxle, manual drivetrain and axle, steering and suspension, brakes, electrical and electronic systems, heating and air-conditioning, and engine performance. Students gain experience in servicing and inspecting all areas of the vehicle, using service information to obtain proper repair procedures, torque specs, and proper fluid and capacity specifications. Students are able to obtain certificates through Snap-On and NC3 certifications on our tire changing machine, diagnostic wheel balancer, wheel alignment system, and on a Snap-On multimeter. Students are also introduced to diagnostic procedures and strategies using state of the art diagnostic equipment to diagnose and repair check engine lights, tire pressure monitoring system lights, antilock brake systems, traction control systems, and other areas of today's advanced vehicles. Our CDX online curriculum offers student online eBooks, an audio book, power points, videos, interactive animations, and diagnostic scenarios. The online content allows it to be updated to ensure students are learning with the most current information available. Instructors continually attend training seminars to keep up with the latest trends and technologies available in the automotive industry.

Our automotive technology program is accredited by the ASE Educational Foundation at the AST level. Being accredited and aligned with the ASE Educational Foundation allows our program a great deal of resources to ensure our students receive the best training with up to date tasks and equipment. This relationship helps to ensure we align our curriculum with the current needs of the potential employers in the area, which helps lead to internship for students and the possibility of cooperative work placement for our students with local employers.





The automotive technology program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at **https://www.doe.mass.edu/ccte/cvte/frameworks/**

Career Opportunities

Our automotive program prepares students for rewarding careers as entry-level technicians that are able to service, diagnose and repair the advanced vehicles on the road today. With further training either on the job or postsecondary education students can advance on the career ladder and become master technicians, specialists in different areas of the vehicle, diesel technician, service advisors or parts personnel. With further training they may get into fields such as design or engineering, and parts or service management.



Certification and Affiliations

Students completing the automotive program are eligible to receive the following certification:

- S/P2
- Automotive safety
- Automotive pollution prevention
- ALI lifting it right student edition
- Snap-On / NC3
- System V tire changer
- B2000P diagnostic wheel balancer
- Pro42 vehicle alignment system
- Snap-On 504 multimeter

The automotive program is affiliated with the following professional organizations:

- ASE Educational Foundation
- SkillsUSA
- Subaru U program



The world of business is diverse and touches all aspects of today's society. From small startup businesses to professional offices to large corporations, employers seek workers with strong communication, leadership, teamwork, computer, and time management skills. The business technology program, by combining business theory and technology skills, prepares students for a wide range of careers. Through the four year program, students gain a thorough knowledge of word processing, spreadsheet, database, presentation, and desktop publishing applications. Students explore fundamental business topics including marketing, management, customer service, entrepreneurship, communications, accounting and finance. Graduates of the business technology program leave with valuable and indispensable business skills that help them to excel beyond high school, whether entering the workforce ready to be effective team members in a business organization, or choosing to further their education in college. Even if graduates choose to follow a different career path, they can rest assured that the transferable skills learned in the business technology program will be in high demand.





The business technology program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at

https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon graduation, students who have completed the business technology program are prepared for entry-level careers in administrative support, banking, customer service, and accounting. With further education in a business-related college program, students can pursue careers in accounting, finance, business administration, management, and marketing. Because business is diverse, there is something to suit almost everyone, with employment opportunities in many settings, including corporate, government and not-forprofit organizations.

McCann Tech is a great school and provides students with a strong foundation whether they are entering college or going directly into the workforce. Personally, I attribute many of my "core" strengths to lessons and experiences I had while at McCann Technical High School!"

> **Shelley K. Guyette** Senior Vice President Human Resources Berkshire Bank

Certification and Affiliations

Students completing the business technology program are eligible to receive the following certification:

- SkillsUSA Work Force Ready System certification in Customer Service, Employability
- Microsoft Office Specialist certifications in Word, Word Expert, Excel, Excel Expert, PowerPoint, Access Expert, and Outlook
- The U.S. Department of Labor Occupational Safety and Health (OSHA) General Industry Safety and Health certification.

The business technology program is affiliated with the following professional organizations:

• Business Professionals of America



The carpentry program prepares students for careers in construction related fields by developing their skills in building construction and woodworking techniques. Through classroom projects, and actual work in both the school and community, students learn skills including installing roofs, windows and doors, framing, constructing footings and foundations and all aspects of residential and commercial construction. While developing these skills students move through the different phases of project-planning including blueprint creation and reading, estimating costs and creating material lists, creating work schedules and completing tasks on time. Students will complete the program with the expertise necessary to enter directly into the workforce or pursue further education.





The carpentry program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon completion of the carpentry program students are prepared for entry in the career fields of both residential and commercial construction, foundations, structure and building contractors, project estimators, renovation specialists, and industrial carpenters for scaffolding and concrete specialties. With further education students can pursue careers as architects, building engineers, construction managers, and civil engineers.

Certification and Affiliations

Students completing the carpentry program are eligible to receive the following certifications:

- SkillsUSA Work Force Ready System certification
- Modern Carpentry Precision Exam Certificate
- The U.S. Department of Labor Occupational Safety and Health (OSHA) Construction Safety and Health Certification





areer opportunities in the fields of mechanical design, architectural design and computer animation require designers that are competent, knowledgeable and highly-skilled in the use of the latest software and methods. The CAD department trains students utilizing the latest software including Revit, AutoCAD, PTC Creo, SolidWorks, OnShape, Inventor, Fusion 360, Sweet Home 3D, Maya, Mudbox and Unity. CAD students utilize the design process to create real world projects. With the help of high-end software, hands-on Design for Manufacturability (DFM) and Design for Assembly (DFA) studies and additive manufacturing (3D printing), students are able to take the design process through all of its stages by brainstorming, designing, creating a working prototype, troubleshooting and eventually manufacturing. Creating 3D models, technical drawings, floor plans, computer animations, and working prototypes prepares students to pursue careers in manufacturing, construction, animation or further their CAD education at the college level.





The computer assisted design program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at

https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon completion of the CAD program at McCann students are prepared to undertake careers as CAD operators, layout designers, structural drafters, mechanical drafters, civil drafters, computer animation technicians, and architectural drafters. With further education, students who have completed the CAD program can pursue careers as architects, mechanical engineers, injection mold designers, civil engineers, 3D animators, electrical or electronic engineers, and aeronautical engineers.

"

My employer was very impressed with McCann's ability to prepare students for the working world. Thanks to McCann I have been at General Dynamics for 3 years, was able to buy a home 1 year after graduation and I continue to look forward to more related education and career advancement opportunities."

> Michelle Briggs CAD 2013 General Dynamics

Certification and Affiliations

Students completing the computer assisted design program are eligible to receive the following certifications:

- AutoDesk Certified User: AutoCAD
- AutoDesk Certified User: Revit
- AutoDesk Certified User: Inventor
- AutoDesk Certified User: Fusion 360
- AutoDesk Certified User: Maya
- Solidworks CSWA Certified SOLIDWORKS Associate Certification
- Onshape Certified Associate
- NOCTI CAD Certification
- The U.S. Department of Labor Occupational Safety and Health (OSHA) General Industry Safety and Health Certification (OSHA-10)





The culinary arts program is proud to be Berkshire County's only culinary program certified by the American Culinary Federation. This distinction is a direct result of the high quality culinary education our students receive. Students enrolled in culinary arts progress from the fundamentals of baking and cooking to the more creative aspects of the field. In addition to daily assignments in our modern kitchens, opportunities for students to apply their knowledge are provided through participation in our quantity foods program, "Tea Room" restaurant and bake-shop, the annual Gourmet Dinner, as well as SkillsUSA competitions. The demand for qualified employees in the hospitality industry is at its peak, and graduating from the culinary arts program will help ensure students are ready to pursue a career in this exciting area or further develop their skills at a postsecondary institution.





The culinary arts program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon completion of the culinary arts program students are prepared to undertake careers as baker's assistant, prep cook, line cook, dietary aide, kitchen assistant, meat fabricator, concessionaire, gardé manager, fast food manager, and supermarket food service clerk. With further education, students who have completed the culinary program can pursue careers as a bakery or restaurant owner, food service manager, kitchen manager, executive chef, banquet chef, sous chef, pastry chef, dining manager, restaurant manager, food and beverage director, dietitian, Maiter D', research chef, hotel manager, catering and sales director or supermarket foodservice manager.

Certification and Affiliations

Students completing the culinary arts program are eligible to receive the following certifications:

- SkillsUSA Work Force Ready System certification
- Servsafe Certification
- American Culinary Federation Certified Junior Culinarian certification
- The U.S. Department of Labor Occupational Safety and Health (OSHA) General Industry Safety and Health certification
- Certificate of Allergen Awareness Training



ELECTRICIT



Lectricians install and maintain electrical systems that are essential for life in the 21st Century. As the sophistication of these systems has increased, so has the demand for skilled workers with the training and experience to design, install, troubleshoot, and repair these systems. The electricity program prepares students for electrical careers in residential, commercial, and industrial settings. Students begin with the basics of residential wiring and over their four years in the program acquire skills in more advanced electrical work including photovoltaic (solar) wiring, programmable logic controls, burglar and fire alarm wiring, and network wiring. Further education after high school, or entry right into the work force, are both viable options for our students after completion of the electricity program.





The electricity program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon completion of the electricity program students are prepared to undertake careers as residential and commercial electricians, telecommunications installer, and utility company workers. With additional education and experience electricity students can go on to become electrical engineers, electrical contractors, industrial electricians, fire alarm and security systems specialists, motor repair technicians, photovoltaic installers and technicians, HVAC technicians, telecommunications technicians and power line technicians.

Certification and Affiliations

Students completing the electricity program are eligible to receive the following certifications:

- SkillsUSA Work Force Ready System certification
- 300 Classroom hours and 1400 working hours towards the Massachusetts journeyman electrician license
- The U.S. Department of Labor Occupational Safety and Health (OSHA) Construction Safety and Health Certification.





Information technology (IT) is one of the most rapidly growing fields in the United States today. As technology expands and develops at an exponential rate the need for highly qualified information technology specialists will continue to grow. The overall employment in the information technology field is expected to increase 13% between 2020 and 2030 which is significantly higher than the national average for all other occupations. These occupations are projected to add about 667,600 new jobs. Information technology students engage in an intense and thorough experience that encompasses every part of the information technology profession. This includes computer repair and maintenance, networking, programming, web-design, computer security, and resolving network issues for large corporations and businesses among many others. IT students also gain handson experience with the latest developments in hardware and software technologies including networks, and operating systems such as Microsoft Windows, Linux, Unix and new-generation web-based applications. Whether you go straight to college or enter directly into the workforce the information technology program is a great step towards a successful future.





The information technology program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at

https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon completion students are prepared to enter the careers of computer support specialist, network technician, computer programmer, web designer, technical communicator, and data base specialist. With additional education and experience students can continue as computer engineers, software engineers, computer scientists and systems analysts.



Certification and Affiliations

Students completing information technology program are eligible to receive the following certifications:

- SkillsUSA Work Force Ready System certification
- Computing Technology Industry Association (CompTIA) A+ and Net+ certifications
- The U.S. Department of Labor Occupational Safety and Health (OSHA) General Industry Safety and Health Certification.

The IT program is affiliated with the following professional organizations:

- Cisco Networking Academy
- Computing Technology Industry Association



Students in the metal fabrication program alternate instruction between sheet metal fabrication and welding thereby developing a complete set of metal working skills. Students learn the theory in the classroom and apply those lessons in the shop. Sheet metal training includes layout, fabrication and installation of duct, fittings, and accessories associated with heating and ventilation systems. Instruction is given in the major welding processes of SMAW, GMAW, and GTAW. Cutting processes include oxy-acetylene, CNC plasma and hand held plasma as well as various mechanical cutting methods. Students are trained in the safe and proper use of welders, hydraulic press brake and shear, slip rolls, forming machines, and hand brakes. Our facility includes a full sheet metal shop and 18 individual welding stations, complete with direct capture exhaust. The metal fabrication department will help students develop the skills and work ethic needed to be successful whether they decide to enter the workforce after graduation or pursue further education.



The metal fabrication program adheres to the Massachusetts Department of Elementary and Secondary Education, Career Vocational Technical Education curriculum frameworks which can be found at

https://www.doe.mass.edu/ccte/cvte/frameworks/

Career Opportunities

Upon graduation students completing the metal fabrication program are ready to pursue careers such as entry-level welders, sheet metal apprentices, fabricators, pipe-fitters, press brake operators and shipbuilders. With further education metal fabrication students can go on to careers as forepersons, project cost estimators, project managers, system designers, weld inspectors, mechanical engineers, welding engineers, vocational technical instructors, college instructors, and senior system designers.

"

McCann Technical School gave me the foundational knowledge to build a successful manufacturing and supply chain leadership career. It is a great advantage understanding the work being performed and having a personal relationship with those doing it."

> **John Bishop** Vice President (Ret.) Global Transitions - Sikorsky

Certification and Affiliations

Students completing the metal fabrication program are eligible to receive the following certifications:

- SkillsUSA Work Force Ready System certification
- The U.S. Department of Labor Occupational Safety and Health (OSHA) Construction Industry Safety and Health certification.

The metal fabrication program is affiliated with the following professional organizations:

- American Welding Society
- Massachusetts Baord of Examiners of Sheet Metal Workers

COURSE OFFERINGS

Grade 9	Grade 10	Grade 11	Grade 12	
COLLEGE PREP				
Algebra I Environmental Science Literature/Writing U.S. History P.E./Health	Geometry Biology Literature/Writing U.S. History II P.E./Health	Algebra II Chemistry Literature/Writing World History I P.E./Health Spanish I - Elective	Precalculus Physics Forensics Anatomy and Physiology Literature/Writing World History II P.E./Health Advanced Quantitative Reasoning Spanish II - Elective	
HONORS				
Algebra I Geometry Literature/Writing	Geometry Algebra II Biology Literature/Writing PLTW - Introduction to Engineering	Algebra II Precalculus Chemistry Literature/Writing World History I	Precalculus Physics Literature/Writing World History II	
		PLTW - Computer Science Principles PLTW - Principles of Engineering	Literature & Composition Calculus Statistics Biology Physics PLTW - Computer Science Principles PLTW - Principles of Engineering	
TECHNICAL STUDIES				
Grade 9 Exploratory/Major	Grade 10 Technical Major	Grade 11 Technical Major	Grade 12 Technical Major	
CTE ENRICHMENT CLASS				
Computer Technology	Career Readiness	Personal Finance	Business Management & Entrepreneurship	

GRADUATION REQUIREMENTS Graduation requirements: Students must

Graduation requirements: Students must successfully complete all courses, earn **35** credits, and achieve a competency determination on mandated Massachusetts Comprehensive Assessment Test in order to receive a diploma.



MATH/SCIENCE/SPANISH



MATHEMATICS

Our courses provide a rigorous and engaging curriculum that prepare students for success in college, in careers, and in daily life. Students explore and experience mathematics through a variety of activities and real world applications that encourage the development of 21st century skills including inquiry, analysis, communication, and collaboration. The sequence of mathematics courses aligns with the model pathway provided in the Massachusetts Curriculum Framework and incorporates the Common Core State Standards. The mathematics sequence concludes with an advanced course in either precalculus, quantitative reasoning, or advanced placement courses. The Standards for Mathematical Practice from the Common Core are the key component for each mathematics course and are intersected with the content standards from each discipline to develop a student that is mathematically proficient. These include problem solving, adaptive reasoning, modeling, and strategically utilizing available tools, all of which translate to college and career readiness upon graduation.



SCIENCE

Our enthusiastic faculty delivers courses in multiple disciplines in order to meet the needs of all students and their varied interests. Topics include biotechnology, environmental science, chemistry, nanotechnology, physics, forensics, and anatomy and physiology. Featuring renovated state-of-the-art lab facilities and equipment, students develop real-world laboratory skills necessary to participate in the 21st century workforce. Students explore these fields through exercises that include labs on bacterial transformations, ecological river study, DNA fingerprinting, dissections, electroplating, and roller coaster physics. McCann Technical School's science graduation requirements exceed Massachusetts DESE requirements ensuring that students are thoroughly prepared to either enter the workforce or continue on to further education.



SPANISH

Students acquire a working knowledge of the Spanish language system as well as cultural conventions and norms of politeness. This enables them to perform communicative tasks in Spanish and to successfully transmit and receive meaningful messages. Links to academic areas are also developed through the use of hands-on projects, writing, reading, and public speaking. The Spanish curriculum is aligned with the Massachusetts Curriculum Framework and students who complete the Spanish program meet the foreign language requirements for colleges that require it though many schools waive this requirement for graduates of vocational schools. Students should consult their guidance counselor to determine if this course will be required.

ENGLISH/HISTORY/HEALTH/PE

ENGLISH LANGUAGE ARTS

Communication and critical thinking skills are essential for success. Students develop these skills by analyzing both works of literature and informational texts which address the historical scope, cultural diversity, and real world applications for the specific theme assigned to each course year. Argumentative informational/explanatory, and narrative writing are the key written forms that students focus on to convey their knowledge as they work towards becoming a college and career ready writer. English courses connect literacy to larger social issues and prepare students to be active participants in a multicultural, democratic society. The English curriculum is aligned with the Massachusetts Curriculum Framework for English Language Arts and Literacy, which incorporates the Common Core State Standards for English Language Arts. The College and Career Readiness Anchor Standards from the Common Core provide the foundation for English courses allowing students to demonstrate proficiency in reading, writing, language, speaking, and listening. These fundamental skills ensure that all McCann graduates are equipped with the knowledge and skills required for college, work, and life in the 21st century.



HISTORY

Our history department works to develop students' understanding of their role as citizens. United States and world history courses connect events of the past with current world affairs which allows students to better comprehend the world in which they live. The history curriculum is in alignment with the Massachusetts History and Social Science Curriculum Framework, as well as the Common Core State Standards for English Language Arts and Literacy in History/Social Sciences. Using a variety of instructional methods including group discussions, reflective writings, interpretation of primary sources, projects, and viewing of historical documents, students develop a deep understanding of history and its importance in helping them grow into productive, participating citizens in a democratic society.



HEALTH/PHYSICAL EDUCATION

The physical education and health program provides each student with the opportunity to develop physical fitness and learn the benefits of a healthy lifestyle. Physical education courses promote an appreciation of lifetime health and fitness. Recreational activities help to instill cooperation, self-discipline, and respect for others through competitive and non-competitive experiences. Health education courses encourage students to understand human development as it relates to the physical, emotional, and social well-being of the individual. This includes building an awareness of the dangers of substance abuse, sexually transmitted diseases, and bullying.



CTE ENRICHMENT CLASS

CAREER TECHNICAL EDUCATION (CTE) ENRICHMENT CLASS



The Massachusetts Department of Elementary and Secondary Education mandates strict compliance with approved Career Vocational Technical Curriculum Frameworks for all vocational programs in the Commonwealth. These frameworks are divided into six strands: **Strand 1** Safety and Health, **Strand 2** Technical, **Strand 3** Embedded Academics, **Strand 4** Employability and Career Readiness, **Strand 5** Management and Entrepreneurship, and **Strand 6** Technology. Strands 1, 2 and 3 are taught within the curriculum for each of our technical majors. Strands 4, 5 and 6 are taught in a separate CTE enrichment course.

Freshman students are introduced to computer technology that will support them during their high school career and beyond. Career readiness is the focus of the sophomore year. Students prepare resumes, references, and participate in a mock interview with a member of the local business community. During their junior year students learn how to manage their money in a personal finance course. Finally, during their senior year, students cover business management due to the importance of all business owners and employees possessing management and financial skills to be productive members of society. For further information visit the DESE website, http://www.doe.mass.edu/ccte/cvte/frameworks/

We continuously partner with business and industry including Adams Community Bank for personal finance and over 30 companies in our mock interview program to provide additional realism to these topics. Our vocational program advisory committees routinely participate in a variety of educational support activities. These business relationships are the cornerstone of our success.

SCHOOL COUNSELING

McCann provides a personalized experience for each student. Academic and personal counseling, school to career guidance, college guidance, and a multitude of referral services are available. Our counselors are committed to helping students develop an individualized career plan defining a college and career pathway utilizing the Massachusetts 'My Career and Academic' (MyCAP) model. School counselors teach transitions classes to all grade levels that provide students with personal and social skills, and strategies for success in high school. Our goal is to graduate well-rounded individuals that have the educational and social strategies needed for life-long success.

Many McCann students continue their education at the college, university, or postsecondary level immediately upon graduation, while others have the proper training to directly enter the workforce in their vocational-technical field. Our students benefit from articulated college credits through the Massachusetts Statewide Articulation Agreements involving all public community colleges in the Commonwealth and dual enrollment opportunities through local colleges.



ADMISSIONS



High School Admissions

An admission process is necessary in vocational technical schools where space is a limiting factor. Vocational technical laboratories (shops) are designed and equipped to serve a specific maximum number of students safely. Consequently, a complex of such laboratories lacks both the space and flexibility to accommodate the possible needs and/or interests of all applicants. Therefore, a selection process is necessary to determine which applicants may most benefit from such educational opportunities. All applicants will be evaluated using the criteria contained in our complete admissions policy.

Application Process

Students interested in applying for admission to the 9th or 10th grade can do so by applying online; by obtaining an application from their local school guidance counselor; by accessing the McCann Technical School's webpage for an application, or visiting McCann Technical School's guidance department. After the application has been submitted an applicant may review the status of their application by logging on to the account that they created when they submitted an online application. The applicant can also get status updates from the local guidance counselor or the principal at McCann. If an applicant does not have a guidance counselor, or in the case of homeschooling, the applicant should contact the guidance department at McCann. It is the responsibility of the local school guidance counselor to complete their portion of the application form and forward the completed applications, including all required signatures to McCann according to the admissions timeline.

Applications are reviewed, processed and assigned points according to the selection criteria. After a point total for each applicant has been determined, all applicants are placed in order of their point total. Applicants are then accepted in order of the point total they have achieved. All applicants are accepted, declined, or placed on a waiting list. If openings occur, the vacancies are filled by accepting applicants from the waiting list. These applicants, like those accepted earlier, are accepted in order of their place on the waiting list determined by the total points achieved according to the selection criteria. Applications received after each application deadline will be evaluated using the same criteria as other applications and their composite score will be integrated in rank order on the established waiting list in preparation for the next application deadline. All applicants are notified of their acceptance decision by the deadline in their respective admissions window via a welcome letter sent electronically through the school's online admissions program. Families without the internet and who have completed paper applications will be notified via letter.

For the full admissions policy, including timelines, visit: www.mccanntech.org

To access the online application visit: https://mccanntech.go2cte.com/Home.aspx

OPPORTUNITIES TO VISIT

Eighth Grade Tours

All eighth grade students within our district should have an opportunity to take a tour of McCann with their current middle school. If your student is unable to attend a tour with their school or for more information please contact the school principal, Justin Kratz, jkratz@ mccanntech.org or 413-663-5383, ext. 104 for individualized tours.

Showcase for Success

Each fall our students and faculty showcase their talents at our evening open house. All technical areas are open and both students and faculty are available to answer questions and give explanations of our programs. All vocational/technical shops and academic departments have exhibits available and we encourage all members of the community to visit.

Career Awareness Program

A Career Awareness Program takes place in January and eighth grade students are encouraged to participate. The program runs for three weeks, three afternoons per week, from 3:00 PM - 4:30 PM. All students will have an opportunity to experience each technical area with the guidance of instructors and current students. Transportation is provided from most area middle schools. Specific dates will be posted on our website (www.mccanntech.org) as well as on the updated Career Awareness Program application.

ATHLETICS 📚





STUDENT ACTIVITIES



STUDENT LIFE

Student Organizations and Activities

- Book Club
- Business Professionals of America
- Drone Club
- National Honor Society
- Robotics Club
- School Council
- Ski & Snowboard Club
- SkillsUSA
- Yearbook

Athletics

Fall Sports

- Boys Soccer
- Cheerleading
- Cross Country
- Football
- Girls Soccer
- Golf

Winter Sports

- Bowling
- Boys Basketball
- Cheerleading
- Girls Basketball
- Hockey Co-Op
- Swimming Co-Op
- Wrestling Co-Op

Spring Sports

- Baseball
- Boys Lacrosse
- Girls Lacrosse
- Softball
- Track & Field Co-Op









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ALUMNI



▲ McCANN ALUMNI FACULTY

(Row 1) Victoria Tarsa – Medical Assisting '96, Lynn Pinsonneault – Medical Assisting '12 and Practical Nursing '16, Kristi Mastroianni – Cosmetology '91, Michelle Racette – Dental Assisting '90, Jocelyne Hescock – Surgical Technology '03, Kate Ramos – Business Technology '08, Rebecca Buck – Business Technology '95, Hannah Vincelette – Culinary Arts '09, Scott Botto – Advanced Manufacturing '81, Richard Moon, Librarian – Advanced Manufacturing '82.

(Row 2) Thomas Tinney, Co-Op Coordinator – CAD '84, Michael McCarron – Automotive '77, Michael Thoresen – Advanced Manufacturing '04, Glenn Andrews – Metal Fabrication '87, Susan LeClair – Business Technology '97, Patrick Ryan – Carpentry '95, Thomas Matuszak – Advanced Manufacturing '81, Perry Burdick – Electronics '82.

(Row 3) Josh Meczywor – CAD '03, John Kline – Metal Fabrication '84, Gregory King – CAD '01, Ronald Pierce – Electricity '85, Patrick Cariddi – Culinary Arts '83, Richard Bergendahl – Electronics '86

▼ Christian Chenail, Physical Education – Electricity '11, Melissa King-Tinker – Culinary Arts '97, Chad O'Neill, Counselor, – Electronics '95, Donald Tatro – Electricity '79.



Absent from the photographs Richard Lincourt, Special Education – Advanced Manufacturing '95